



FROEHLING & ROBERTSON, INC.

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July 17, 2015

Mr. Mike Fowler, PE
Senior Water Resources Engineer
Wildlands Engineering, Inc.
9940 Main Street, Suite 202
Fairfax, VA 22031

Re: Additional Soil and Groundwater Assessment
Duke Diet and Fitness Center
808 West Trinity Avenue
Durham, North Carolina
F&R Project No.: 66S-0425-0001

Dear Mr. Fowler:

Froehling & Robertson, Inc., (F&R) is pleased to submit this Additional Soil and Groundwater Assessment report for the above referenced Property. The scope of services described within is based upon F&R Proposal Number 1666-00114.

PROJECT INFORMATION

The Property is known as the former Duke Diet and Fitness Center (DDFC), and consists of a 9.11 acre parcel located at 808 West Trinity Avenue. The southern portion of the Property is developed with asphalt paved parking areas, and a 19,796 square foot health club building that was constructed in approximately 1956. The northern portion of the Property was formerly developed with athletic fields; however, a deteriorated storm sewer pipe located on the eastern side of the parcel prompted the owners to fence off a portion of the field due to safety concerns. The northern portion of the site now consists of cleared and wooded land. South Ellerbe Creek is located along the western portion of the Property. Please reference Figure 1 for the site location.

Phase I ESA - Brown & Caldwell subcontracted a Phase I Environmental Site Assessment (EcoEngineering, August 26, 2011) at the DDFC in Durham, North Carolina for the City of Durham. During the course of the Phase I ESA, Recognized Environmental Conditions (RECs) were identified in association with an on-site debris pile containing asphaltic materials (located in the field north of the building), as well as several adjacent properties that had the potential



to impact the DDFC property. EcoEngineering recommended conducting a Phase II ESA to address the RECs.

Limited Phase II - Brown & Caldwell subsequently performed a Limited Phase II Investigation in December 2011 and September 2013 to evaluate the soil and groundwater impacts associated with the above RECs. Brown and Caldwell collected soil and groundwater samples from adjacent to the asphalt pile, and submitted the samples for laboratory analysis of Volatile Petroleum Hydrocarbons (VPH), Extractable Petroleum Hydrocarbons (EPH), Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compounds (SVOCs). Brown & Caldwell also subcontracted a surveyor to determine the size of the asphalt debris pile, which was determined to contain approximately 473 cubic yards. Based upon the results of the Limited Phase II Investigation, Semi-Volatile Organic Compounds (SVOCs) were identified at the following depths:

- 5 feet below ground surface (bgs) at TW-5, adjacent to the south side of the asphalt debris pile;
- 1-foot bgs at five sampling locations (TW-2 and TW-5 through TW-8) surrounding the asphalt debris pile; and
- 1-foot bgs at two step-out borings near TW-2, to the east-northeast of the asphalt debris pile.

In addition, EPH compounds were identified at a depth of 1-foot bgs at TW-2. With the exception of TW-5, SVOCs were not detected in the samples collected at 5-feet bgs at these locations. Brown and Caldwell therefore concluded that surface runoff from the asphalt debris pile had impacted shallow soils at least 40 feet north and east of the pile. Brown and Caldwell recommended further assessment to define the lateral extent of the SVOCs detected in the soil.

Limited Soil Assessment - Based on the results of the Brown & Caldwell Limited Phase II Investigation, Wildlands Engineering requested for F&R to further delineate the shallow soil contamination near the asphalt debris pile, and provide a cost estimate for remediation of the pile and surrounding impacted soils. F&R completed a Limited Soil Assessment in May 2015, which included the advancement of 27 soil borings around the asphalt debris pile, and in the field north of the existing site structure. F&R collected soil samples from these soil borings at varying depths (from existing ground surface up to 5 feet bgs), and field screened the samples using ultraviolet fluoroscopy (UVF) methods (QED hydrocarbon analyzer). In addition, F&R submitted a total of 21 soil samples for laboratory analysis of VOCs, SVOCs, EPH and VPH. Based upon the results of the laboratory analysis, several SVOCs were detected at concentrations



above IHSB Residential and/or protection of Groundwater PSRG standards. Several of these SVOCs were identified as Polycyclic Aromatic Hydrocarbons (PAHs) commonly associated with coal, coal tar, asphalt and as byproducts of incomplete combustion. Several of the PAHs commonly found in asphalt were detected at higher concentrations near the asphalt debris pile. Based upon observations made during the field investigation, as well as the results of the UVF field screening, F&R believed that the widespread detection of PAHs at lower concentrations may be from a different source than the asphalt pile. Possible sources may include previous placement of fill soils, atmospheric deposition of fly ash, or from a previously unknown or unreported fire that may have taken place on the Property.

In addition, F&R detected Diesel Range Organics (DRO) in Boring SB-4, advanced near a vent pipe adjacent to the existing site structure. F&R also detected Gasoline Range Organics (GRO) in Boring SB-29, advanced near the northeast corner of the building. The sources of these detections could not be readily determined; however, based upon the vent pipe observed, F&R suspected the DRO could be associated with a diesel underground storage tank (UST).

F&R also provided cost estimates to remediate the documented contamination at the Property.

See Figure 2 for Brown and Caldwell's and F&R's previous boring locations.

Based upon the findings of F&R's Limited Soil Assessment, Wildlands Engineering requested additional assessment at the Property, including further defining the extents of surficial PAH contamination, and additional investigation of the DRO and GRO detections.

SOIL ASSESSMENT ACTIVITIES

F&R visited the Property on June 29, 2015 to begin the Additional Soil and Groundwater Assessment. F&R proceeded with the assessment by advancing 12 soil borings (SB-30 through SB-41) via direct-push technology (GeoProbe) at the approximate locations shown in the attached Figure 3. F&R notes the boring numbering began with SB-30 as a continuation of F&R's previously submitted Limited Soil Assessment. The borings were typically advanced to groundwater at boring locations SB-30 through SB-35, and to a depth of 8 feet below ground surface (bgs) at boring locations SB-36 through SB-41. SB-42 was excavated by shovel in order to collect a surficial soil sample. Boring locations and depths were determined by F&R staff based on site features, topography, utility locations, former boring locations and the previously discussed concerns.

Soil sample cores from the borings were collected in disposable, 4-foot long acetate sleeves or by shovel. The soil samples were screened in the field using a photo-ionization detector (PID)



for evidence of volatile organic compounds (VOCs). Evaluation of VOC concentrations was performed using a MiniRae 2000 PID which produces results in parts per million (ppm). A representative soil sample was collected from one-foot sections of each sleeve or hand auger bucket and placed in a re-sealable plastic bag where the vapors were allowed to equilibrate in the headspace of the bag for approximately ten minutes prior to measurement with the PID. The measurements were collected by placing the probe tip into the headspace of the bag. Please reference Figures 1 through 10 for site location, boring locations and site photographs.

F&R also screened soil samples using ultra-violet fluorescence (UVF) methodology, with a QROS QED hydrocarbon analyzer. The QED is capable of identifying the type of hydrocarbon present in the sample, as well as measuring concentrations of GRO and DRO, Total Petroleum Hydrocarbons (TPH), BTEX (Benzene, Toluene, Ethylbenzene and Xylenes), Total Aromatics ($C_{10}-C_{35}$), the Sum of 16 EPA PAHs, and Benzo(a)pyrene. In an effort to vertically delineate the contamination, F&R typically screened samples with the QED in one to two foot sections, to the depths described above.

F&R selected a total of sixteen soil samples from a variety of locations and depths for laboratory analysis:

- Eleven soil samples were selected from seven borings on the southern portion of the Property to investigate the presence or absence of the Pyrogenic Hydrocarbons detected on the northern portion of the Property during the previous assessment (boring locations SB-34, and SB-36 through SB-41).
- Three soil samples were selected from the three borings advanced near the previous diesel fuel detection (boring locations SB-30 through SB-32).
- Two soil samples were collected from locations SB-35 and SB-42 to investigate the leachability of the contaminants detected on the Property and address questions associated with soil disposal procedures.

The soil samples collected from boring locations SB-30 through SB-34, and from SB-36 through SB-41 were submitted for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, Extractable Petroleum Hydrocarbons by MADEP EPH, and Volatile Petroleum Hydrocarbons by MADEP VPH.

The soil samples collected from boring locations SB-35 and SB-42 were submitted for full laboratory analysis of Toxicity Characteristic Leachate Procedure (TCLP), including VOCs, SVOCs, Pesticides, Herbicides, Metals and Polychlorinated Biphenyls (PCBs).



The samples were collected in laboratory-supplied sample containers, placed in a cooler with ice, and delivered by courier to Prism Laboratories in Charlotte, North Carolina following standard chain-of-custody procedures.

RESULTS OF SOIL ASSESSMENT

Subsurface conditions from existing ground surface to boring termination primarily included various layers of dry to moist, gray to brown fine sandy silt (USCS – ML) from ground surface to an average depth of approximately 2.5 feet, and orange-brown sandy silty clay (USCS – CL) from 2.5 feet bgs to boring termination (8 to 10 feet bgs).

Petroleum odors were generally not observed during field screening or sample collection activities. However, strong petroleum odors were detected at Boring SB-31 from 5 to 6 feet bgs. PID readings on the samples collected during the field screening generally ranged from 0.2 ppm to 1.7 ppm, with no obvious odors noted. However, the PID reading at Boring SB-31 from 5-6 feet bgs was 2.5 ppm, with a petroleum odor noted. See the attached boring logs for a summary of soil descriptions and PID readings.

In 6 of the 37 samples analyzed during the UVF field screening activities, the QED identified Pyrogenic Hydrocarbons as the contaminant in the soil samples. Pyrogenic Hydrocarbons are generated during combustion of various materials, including wood, oil, coal, etc. TPH concentrations detected by the QED in these samples generally ranged from 0.14 to 58.5 mg/kg Diesel Range Organics (DRO).

Very Degraded Petroleum Hydrocarbons were identified in 23 of the 37 samples analyzed by the QED, with TPH concentrations ranging from < 0.53 to 44.5 mg/kg DRO.

Degraded Fuel was identified in 7 of the 37 samples (with TPH concentrations ranging from 3.1 to 128.5 mg/kg), with Petroleum Hydrocarbons Not Detected in one of the samples. See the attached Table 1 for a summary of the QED results, and the attached QED analytical data for the hydrocarbon fingerprint information.

The laboratory analytical results detected several SVOCs at concentrations above the laboratory method detection limit (MDL): Anthracene, Benzo(k)fluoranthene, m- and p-Cresol, Chrysene, Dibenz(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Phenanthrene and Pyrene. These compounds were identified in 10 of the 14 samples submitted.

The following PAHs were detected at concentrations above their respective Residential and/or Protection of Groundwater Preliminary Soil Remediation Goals (PSRGs) established by the Inactive Hazardous Sites Branch (IHSB) in March 2015: Benzo(a)anthracene, Benzo(a)pyrene,



Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene and Phenanthrene.

F&R notes that there are no current IHSB Residential or Industrial PSRG standards for Benzo(g,h,i)perylene and Phenanthrene. Therefore, any concentration of these compounds detected above their Method Detection Limit (MDL) is considered an exceedance of the standard. However, the concentrations of Benzo(g,h,i)perylene and Phenanthrene were detected below their IHSB Protection of Groundwater PSRGs.

In addition, Benzo(a)pyrene was detected above its IHSB Industrial PSRG in Sample SB-32 (2-3 feet bgs), SB-37 (0-2 feet bgs), SB-40 (0-2 feet bgs), and SB-41 (0-2 feet bgs).

Laboratory analysis also detected the presence of Acetone in several of the samples submitted. The concentrations of Acetone were detected at levels below its IHSB Residential and Protection of Groundwater PSRGs. Acetone is a common laboratory contaminant and is frequently detected in volatiles analysis due to its wide-spread use for sample extraction and equipment cleaning. No other VOCs were detected.

In addition, C₉-C₁₈ Aliphatics, C₁₉-C₃₆ Aliphatics and C₁₁-C₂₂ Aromatics were detected above the laboratory MDL in several of the samples submitted. C₁₉-C₃₆ Aromatics were detected at concentrations exceeding the IHSB Residential and Industrial PSRGs in eight of the samples submitted.

TCLP analysis did not detect VOCs, SVOCs, Metals, Pesticides, Herbicides or PCBs in the two samples submitted.

A summary of the soil laboratory analytical results are presented in Table 2. The laboratory analytical results and chain-of-custody form are also attached.

GROUNDWATER ASSESSMENT ACTIVITIES

Upon completion of soil assessment activities, F&R continued to advance five of the borings (SB-30 through SB-35) at the Site in order to obtain groundwater samples. In addition, F&R collected a groundwater sample from the existing monitoring well in the parking lot near the southeastern corner of the structure.

Groundwater samples were collected from boring locations SB-30 through SB-32 in an attempt to determine if the possible diesel release had impacted the groundwater at the Property. The groundwater sample collected from boring location SB-33 was intended to further assess the GRO detection near the northeastern corner of the building. Groundwater samples were collected from boring location SB-34 and the existing permanent monitoring well at the



southeastern corner of the Property to determine if off-site releases were impacting the groundwater at the Property. Finally, one groundwater sample was collected from boring location SB-35 to determine if the presumed asphalt contamination (SVOCs above Industrial PSRG standards) had affected groundwater quality.

The borings were advanced using direct-push techniques (GeoProbe) at the approximate locations shown in Figure 3, and generally to a depth of at least 2 feet below the observed groundwater table in order to provide an adequate volume of groundwater for sample collection. In order to sample the groundwater, a temporary monitoring well (TMW) was constructed at each location. Filter sand was placed in the annulus surrounding a 1-inch screened PVC pipe, followed by hydrated bentonite to ground surface, in order to seal the annulus of the boring.

On June 29, 2015, groundwater was recovered from boring locations SB-32 through SB-35 through the use of a peristaltic pump and polyethylene tubing. Prior to groundwater sample collection, three well volumes of water were purged in order to collect a fresh, representative groundwater sample.

F&R notes that dense Triassic soils were encountered at boring locations SB-30 and SB-31. The temporary monitoring wells at these locations were observed to be either dry or recharged slowly. Due to these conditions, the TMWs at SB-30 and SB-31 were removed, and were re-installed in offset borings advanced approximately 15 feet north of SB-30 and SB-31 in an effort to collect groundwater samples. These offset TMWs were allowed to recharge until July 1, 2015, when F&R returned to the site to obtain groundwater samples using clean bailers. F&R was able to obtain groundwater from the SB-31 offset; however, the recharge in the SB-30 offset remained slow.

After the groundwater samples were collected, the borings were backfilled with bentonite chips.

F&R submitted the groundwater samples for laboratory analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270, and MADEP VPH and EPH. The groundwater samples were collected in laboratory-supplied containers, placed in a cooler with ice, and delivered by courier to Prism Laboratories in Charlotte, North Carolina following standard chain-of custody procedures. Due to the slow recharge at SB-30, the TMW only produced enough groundwater volume sufficient for VOC analysis (EPA 8260).



RESULTS OF GROUNDWATER ASSESSMENT

Groundwater was encountered at depths ranging from 6 to 10 feet bgs at SB-30, SB-31, SB-32, SB-33, SB-35 and SB-35.

The laboratory analysis detected chlorinated solvents in the samples collected from locations SB-32, SB-33 and the existing monitoring well (1,1-Dichloroethane (DCA), 1,1-Dichloroethylene (DCE), and Vinyl chloride). The concentration of DCA was above the laboratory MDL, but below its NCAC 2L Groundwater Quality Standards (GWQS). The concentrations of DCE and Vinyl chloride detected at SB-33 were above the 2L GWQS, but below the NCAC 2L Gross Contaminant Level (GCL). Acetone was also detected in several of the samples, but is likely an artifact of the laboratory analysis.

In addition, laboratory analysis detected several SVOCs above laboratory MDL, including Benzoic acid at SB-31, and Diethyl phthalate and Di-n-butyl phthalate at SB-34.

Concentrations of C₁₉-C₃₆ Aromatics and C₉-C₁₂ Aliphatics were detected in the groundwater samples collected from boring locations SB-33 and SB-34, respectively.

A summary of the groundwater laboratory analytical results are presented in Table 3. The laboratory analytical results and chain-of-custody form are also attached.

SUMMARY

F&R has completed an Additional Soil and Groundwater Assessment at the Duke Diet and Fitness Center. Based on the results of our field exploration and laboratory analytical results for the collected soil samples, several areas of contamination are apparent on the Property:

Asphalt Debris Pile and Associated Impacted Soils: F&R estimates that an area of approximately 10,300 square feet has been negatively impacted by the asphalt pile, inclusive of boring locations TW-2, SB-2, SB-14, SB-24, and TW-7. In this area, SVOCs (primarily PAHs) were detected at levels exceeding IHSB Industrial PSRGs. Based on the QED and laboratory results, asphalt-impacted soils generally appeared to exist within the top two feet of ground surface; however, a smaller quantity of impacted soils may be present to a depth of 4 feet bgs in the vicinity of SB-14. With an estimated area of approximately 10,300 square feet and a depth of 2 feet, an estimated 20,600 cubic feet (or 762 cubic yards) of asphalt-impacted soils may be present in the vicinity of the asphalt debris pile. Assuming 120 pounds per cubic foot, 1,250 tons of soil have been impacted by the asphalt pile. As previously mentioned, Brown and Caldwell reported the asphalt debris pile to contain approximately 473 cubic yards of material.



Site-wide PAH Contamination: PAHs commonly associated with combustion were detected on the southern portion of the Property (south of the building). In addition, the QED Hydrocarbon Analyzer identified Pyrogenic Hydrocarbons and Very Degraded Petroleum Hydrocarbons in the samples collected on the southern portion of the site. According to Mr. Colin Green of QROS, the manufacturer of the QED, hydrocarbons produced during combustion may be identified by the QED as Very Degraded Petroleum Hydrocarbons, and are typically encountered in urban areas.

Based upon this information, F&R believes the widespread detection of PAHs in the surficial soils across the site may be due to the location of the Property in a historically developed, urban area. Factors contributing to the Pyrogenic Hydrocarbons and PAHs on the northern portion of the Property may be a railroad track located east of the site, and an historic textile mill (Pearl Cotton Mill) located to the south beyond Trinity Avenue (that operated from 1892 until the 1950s). The Very Degraded Petroleum Hydrocarbons and the PAHs on the southern portion of the site may be attributable to vehicular emissions washing onto the Property from the atmosphere and/or the ground surface of the surrounding areas (such as the parking lot and/or West Trinity Avenue). At this time, the specific source of the PAHs detected throughout the Property cannot be determined; however, Mr. Green indicated that he has experienced similar results in other historically developed urban areas.

F&R estimates that approximately 170,000 square feet of the site may be impacted by the Pyrogenic Hydrocarbons and PAHs, with contaminated soils generally existing within the top two feet of ground surface (approximately 20,400 tons). In addition, it is apparent that several additional areas have been impacted to depths ranging from 2 to 5 feet bgs (approximately 2,120 tons). The northeastern portion and eastern edge of the Property do not appear to be impacted based upon data acquired from Borings SB-27, SB-28 and SB-34, which generally did not appear to contain PAHs or pyrogenic contamination.

Diesel Contamination and Potential UST: During the previous assessment, a vent pipe was observed adjacent to the northern elevation of the DDFC building, and a diesel release was detected at Boring SB-4 from 3-4 feet bgs. During the additional assessment, three borings (SB-30 through SB-32) were advanced north of the building in an effort to determine the extents of the diesel fuel release. Of these three additional borings, evidence of diesel was observed in SB-31, from 6-7 feet bgs. Laboratory analysis of groundwater samples obtained from these borings did not detect compounds associated with petroleum. Based on the laboratory analytical results and the field screening activities, F&R estimates approximately 2,500 SF of soil has been



impacted, to a depth of approximately 7 feet bgs, which equates to approximately 463 cubic yards, or 750 tons.

Gasoline (GRO) Detection: F&R did not detect additional evidence of GRO in the soil samples collected in SB-33 near the previously advanced SB-29 where GRO was encountered. However, Degraded Fuel was identified by the QED at this location at a concentration of 128.5 mg/kg from 0-2 feet bgs. It is possible that a historical surface release of petroleum has occurred in this area.

In addition, the laboratory analysis of the two TCLP samples (SB-35 and SB-42) did not detect VOCs, SVOCs, Metals, Pesticides, Herbicides or PCBs. These samples were collected from areas of previously documented contamination (SB-35 was collected from the asphalt-impacted soils where compounds were at concentrations exceeding Industrial PSRG levels, and SB-42 was collected from an area of pyrogenic contamination). Therefore, it is unlikely that contaminants are present in these areas at levels above the Maximum Concentrations of Contaminants for Toxicity Characteristics established by the EPA in their *Hazardous Waste Characteristics* document (October 2009).

F&R notes that chlorinated solvents were detected in the groundwater samples collected from locations SB-32, SB-33 and the existing monitoring well. Based on conversations with Mr. Craig MacIntosh of NCDENR, the Scott & Roberts Dry Cleaner is located approximately 500 feet east-southeast of the Property and has been the subject of an extensive investigation associated with the release of several products, including chlorinated solvents, petroleum solvents, and diesel fuel. It is likely that the chlorinated solvents detected in these samples are associated with the Scott & Roberts Dry Cleaner. The groundwater samples submitted did not detect other compounds associated with the contaminants discovered on the Property. Therefore, it does not appear the asphalt pile, the Pyrogenic Hydrocarbons, or the on-site diesel release have impacted the groundwater at the Property.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results obtained during this assessment and existing site conditions, F&R has determined that soil contamination exists at the Property above IHSB Residential and/or Protection of Groundwater PSRGs. ***F&R recommends this report be submitted to NCDENR IHSB for their review within 90 days (in accordance to North Carolina General Statute 130A-310.1 Paragraph B).*** Upon receipt, it is anticipated that NCDENR will issue a letter of acceptance for the reports, keep them on file and may require additional assessment or corrective action at the site in the vicinity of this investigation where exceedances for SVOCs and DRO were



observed. Corrective action may include the excavation and disposal of soils in accordance with state regulations.

At the request of Wildlands Engineering, F&R contacted remediation contractors (A&D, CCI) to estimate a cost to remove the asphalt pile, and excavate and dispose of the soils contaminated by the PAHs, the asphalt pile, and the diesel release. F&R estimates that the majority of the contaminated areas will be remedied by excavating the top two feet of surficial soils, followed by additional excavation in isolated areas to remove impacted soils at lower depths. According to the quotes provided by the remediation contractors, daily rates for excavating and loading soils ranged from \$3,440 to \$3,850 per day. The costs to transport and dispose of the soils ranged from \$55.00 to \$68.00 per ton (\$74.52 to \$110.16 per cubic yard, assuming the soil density is 120 pounds per cubic foot). Using these estimated figures (and assuming three weeks of excavation activities), total costs to dispose of the Pyrogenic and PAH contaminated soils could range from approximately \$1.42 million to \$1.75 million. Based on our conversations with the remediation contractors, it is anticipated that the PAH contaminated soils will require disposal at a Subtitle D landfill. F&R has also included an estimate to excavate and remove a 1,500-gallon UST, and includes the disposal of 1,500 gallons of liquids, 100 gallons of sludges, and F&R's consulting fees. However, F&R notes that it is unknown if a UST is present at the Property. The below table provides an opinion of probable cost to perform the above activities:

Opinion of Probable Cost for Disposal at Sub-Title D Landfill

Remedial Action	Quantity	Cost	Subtotal
Daily Equipment Fees	15 days	\$3,440 to \$3,850 /day	\$51,600 to \$57,750
Removal and Disposal of Asphalt Pile at a Sub-Title D Landfill	473 tons	\$55 to \$68.5 /ton	\$26,015 to \$35,238.50
Excavation and Disposal of Asphalt Debris, and Asphalt, Diesel and PAH Contaminated Soils at a Sub-Title D Landfill	23,270 tons	\$55 to \$68 /ton	\$1,279,850 to \$1,593,995
Excavation and Disposal of UST and Diesel Fluids (if any)	1,500-gallon UST (assumed)	\$50,000	\$50,000
F&R Consulting Fees and Oversight of Remedial Activities	200 to 250 hours	\$75 to \$90 /hour	\$15,000 to \$22,500
	Total		\$1,422,465 to \$1,759,483.50



F&R notes that other disposal options may be available following regulatory review of this information. However, based upon F&R's research, the PAH-impacted soils may not be disposed of at a landfarm (which are permitted for disposal of petroleum contaminated soils only), or at a construction and demolition landfill (which do not accept contaminated materials).

REPORT LIMITATIONS

These services have been performed, under authorization of Wildlands Engineering, for specific application on this project. These services have been performed in accordance with generally accepted environmental and hydrogeological practices. No other warranty, expressed or implied, is made. As with any subsurface investigation, actual conditions exist only at the precise locations from which samples were taken. Certain inferences are based on the results of sampling and related testing to form a professional opinion of conditions in areas beyond those from which samples were taken. Our conclusions and recommendations are based upon information provided to us by others, our sampling and testing results, and our site observations. We have not verified the completeness or accuracy of the information provided by others, unless otherwise noted. Our observations are based upon conditions readily visible at the site at the time of our site visits.

Froehling & Robertson, Inc. by virtue of providing the services described in this report, does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state or federal public agencies any conditions at the site that may present a potential danger to public health, safety or the environment. In areas that require notification of local, state, or federal public agencies as required by law, it is the Client's responsibility to so notify.

The opinions of probable costs presented herein have been prepared for the exclusive use of our Client and their authorized agents for use on this specific project. In addition, the opinions of probable cost are estimates for planning purposes only, and should only be construed as preliminary in nature; actual costs most probably will vary. This report has been prepared based upon our experience within the environmental industry with projects of a similar scope of service. No other warranty, expressed or implied, is made.

This report should not be used for bidding purposes, and is not intended to replace competitive bidding by contractors who are qualified to perform the actual services discussed herein. Contract documents, consisting of detailed plans and specifications, should be prepared by specialists in the appropriate disciplines, for use in the solicitation of competitive bids and the



formation of contract agreements to accomplish the improvements desired. Furthermore, F&R does not assume liability for the use of this report for purposes other than which it was intended as stated above.

If you have any questions/comments or require further information, please do not hesitate to contact the undersigned at (919) 828-3441.

Respectfully submitted,

FROEHLING & ROBERTSON, INC.

A handwritten signature in blue ink that reads "Benjamin A. Whitley".

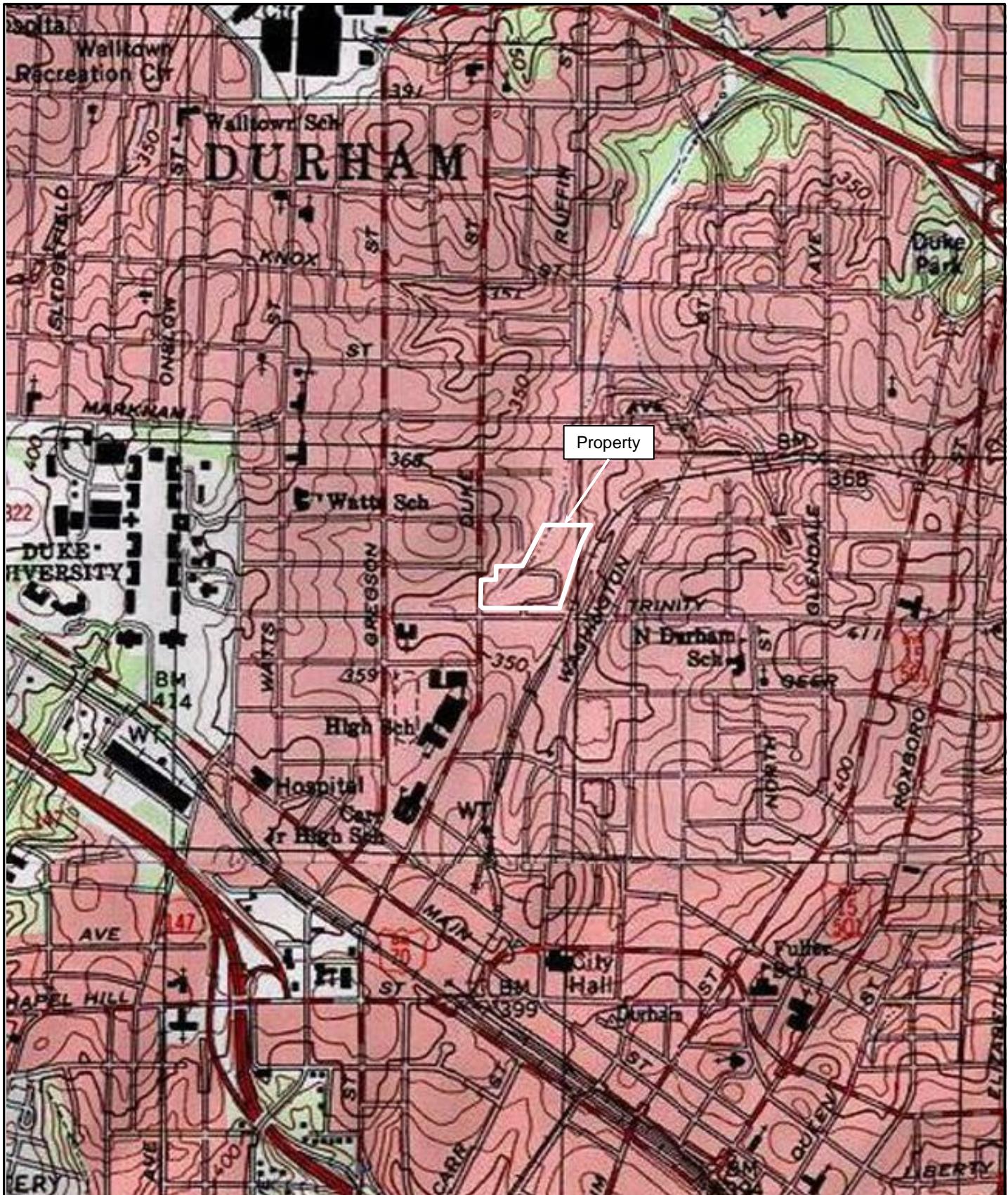
Benjamin A. Whitley, P.E.
Project Engineer

A handwritten signature in blue ink that reads "Michael S. Sabodish, Jr.".

A small portion of another signature is visible to the right, appearing to begin with "Jr.".

Michael S. Sabodish, Jr., Ph.D., P.E.
Engineering and Remediation Services Manager

Attachments: Figure 1 – Topographic Map
Figure 2 – Boring Location Plan
Figure 3 – Boring Location Plan and Soil Contamination To 2' bgs
Figure 4 – Boring Location Plan and Soil Contamination 2' bgs+
Figures 5 through 10 – Site Photographs
Table 1 – Summary of QED Results
Table 2 – Summary of Laboratory Analytical Results (Soil)
Table 3 – Summary of Laboratory Analytical Results (Groundwater)
Boring Logs
Laboratory Results and Chain of Custody
QED Analytical Results and Fingerprints



TOPOGRAPHIC MAP "Northwest Durham, NC"

North ↑



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www.fandr.com

CLIENT: Wildlands Engineering

PROJECT: Duke Diet and Fitness Center

LOCATION: Durham, Durham County, North Carolina

F&R PROJECT No.: 665-0425-0001

DRAWN BY: B. Whitley

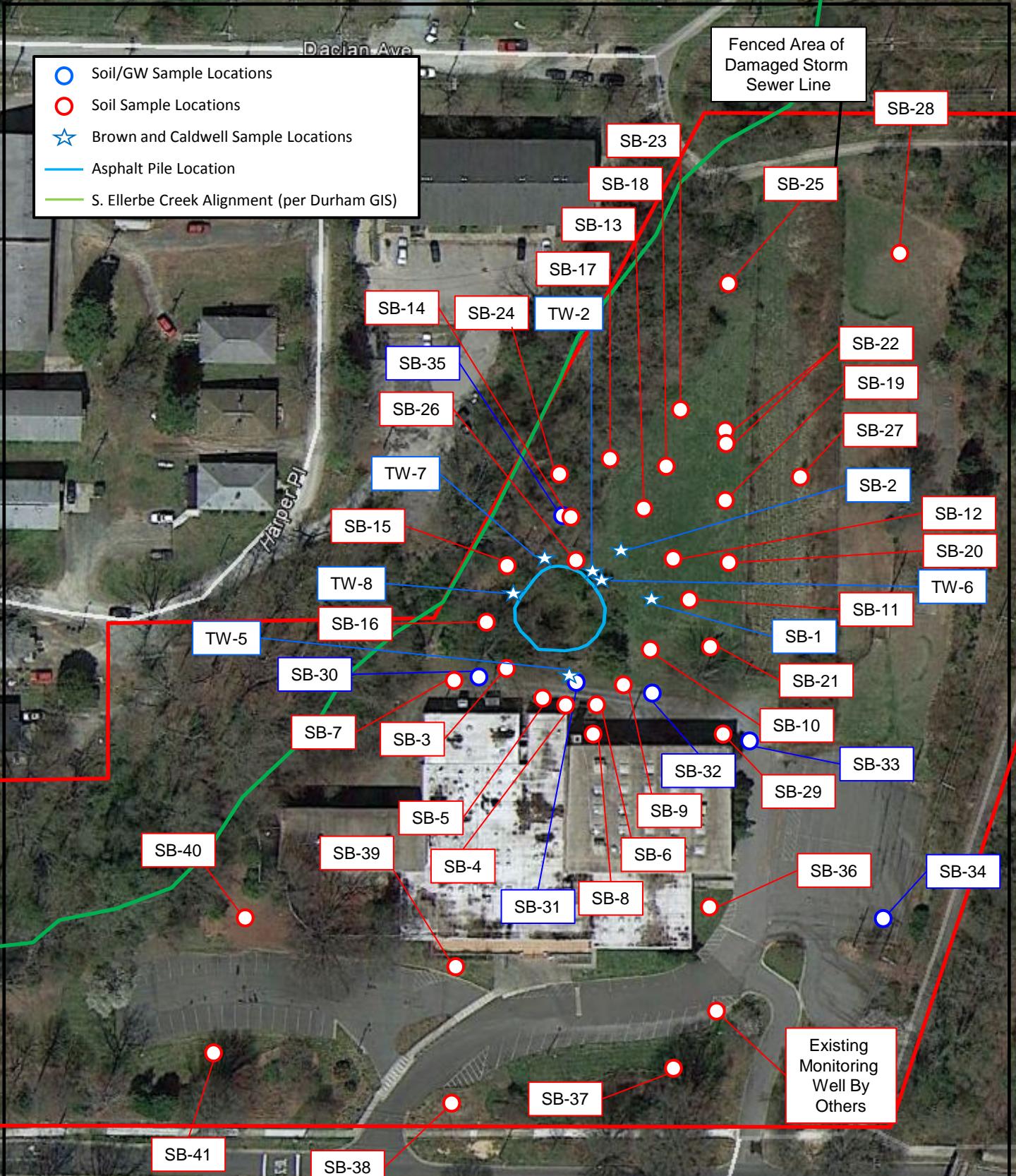
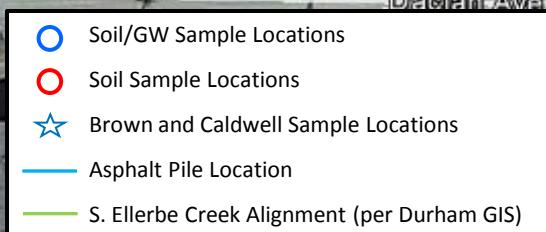
DATE: July 2015

SCALE: Not Shown

FIGURE

No.: 1

1



BORING LOCATION PLAN

North ↑



FROEHLING & ROBERTSON, INC.

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CLIENT: Wildlands Engineering

PROJECT: Duke Diet and Fitness Center

LOCATION: Durham, Durham County, North Carolina

F&R PROJECT No.: 665-0425-0001

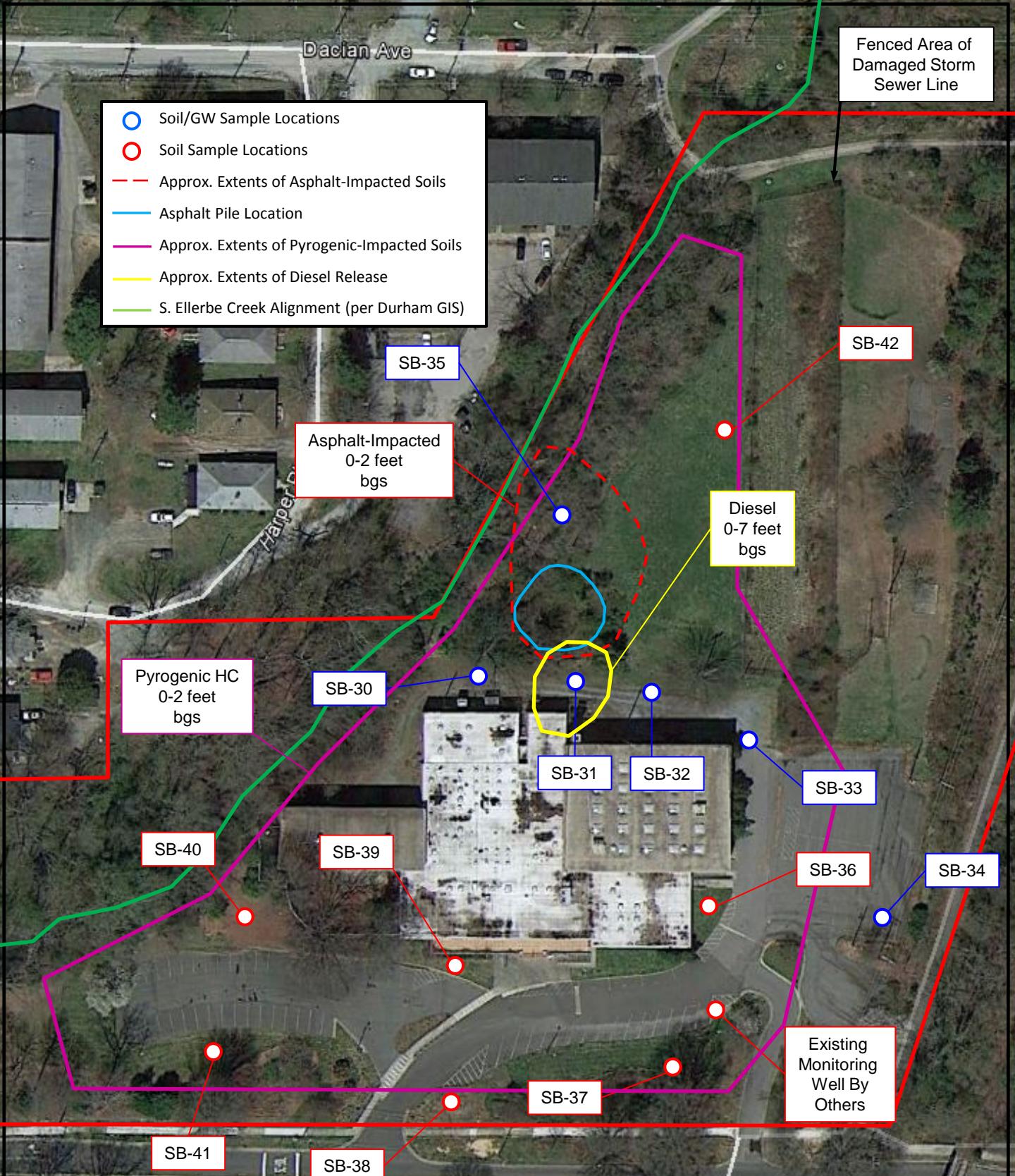
DRAWN BY: B. Whitley

DATE: July 2015

FIGURE

No.: 2

SCALE: Not Shown



BORING LOCATION PLAN and SOIL CONTAMINATION 0-2' BGS

North ↑

SINCE

FROEHLING & ROBERTSON, INC.

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CLIENT: Wildlands Engineering

PROJECT: Duke Diet and Fitness Center

LOCATION: Durham, Durham County, North Carolina

F&R PROJECT No.: 665-0425-0001

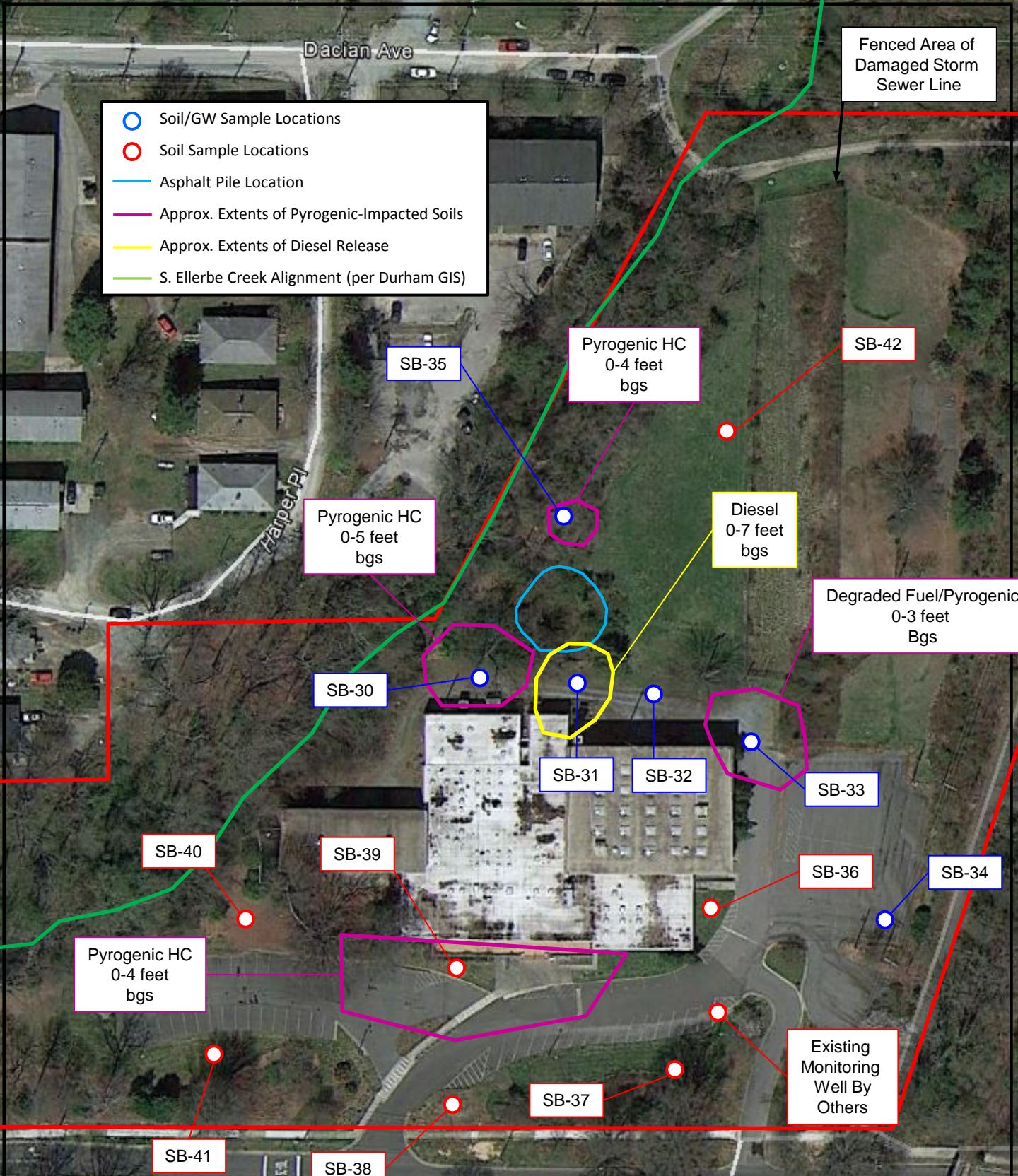
DRAWN BY: B. Whitley

DATE: July 2015

SCALE: Not Shown

FIGURE

3



BORING LOCATION PLAN and CONTAMINATION 2' BGS+

North ↑

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PROJECT: Duke Diet and Fitness Center

LOCATION: Durham, Durham County, North Carolina

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DATE: July 2015

SCALE: Not Shown

FIGURE

4

SB-30

SB-30 Offset
(for Temp. Well)



Photo #1: A view of boring location SB-30, facing west.

SB-31 Offset
(for Temp. Well)

SB-31



Photo #2: A view of boring location SB-31, facing east.

SITE PHOTOGRAPHS

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F&R Site Visit on 7-1-15

FIGURE
No.: 5



SB-32

SB-33

Photo #3: - A view of SB-32 and SB-33, facing east



SB-34

Photo #4: A view of boring location SB-34, facing southwest

SITE PHOTOGRAPHS

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F&R Site Visit on 7-1-15

FIGURE
No.: 6

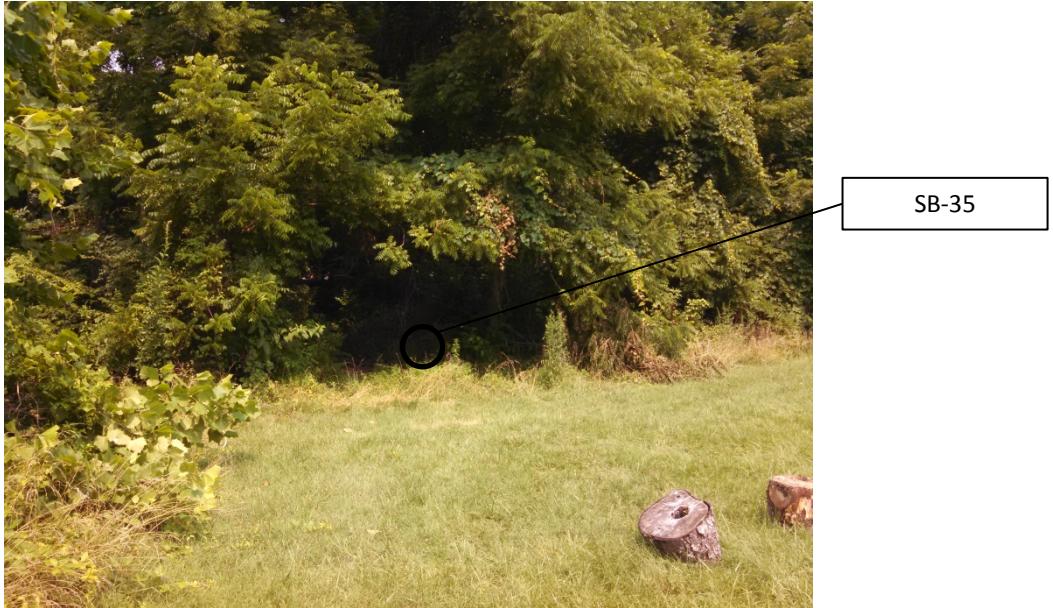


Photo #5: - A view of boring location SB-35, facing northwest. The asphalt debris pile is located just to the left of the photo.



Photo #6: A view of boring location SB-36, facing west

SITE PHOTOGRAPHS

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DATE: July 2015

F&R Site Visit on 7-1-15

FIGURE
No.: 7



Photo #7: - A view of boring location SB-37 and the existing monitoring well, facing south.



Photo #8: A view of boring location SB-38, facing southwest

SITE PHOTOGRAPHS

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1881

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FIGURE
No.: 8

F&R Site Visit on 7-1-15



Photo #9: - A view of boring location SB-39, facing west



Photo #10: A view of boring location SB-40, facing east

SITE PHOTOGRAPHS

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F&R Site Visit on 7-1-15

FIGURE
No.: 9



Photo #9: - A view of boring location SB-41, facing east



Photo #10: A view of boring location SB-42, facing east

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DATE: July 2015

F&R Site Visit on 7-1-15

FIGURE
No.: 10



Table 1. Summary of QED Results

Sample	Sample Depth (feet bgs)	Date Collected	BTEX (C6-C9)	GRO (C5-C10)	DRO (C10-C35)	TPH (C5-C35)	Total Aromatics (C10-C35)	Sum 16 EPA PAHs	BaP	HC Fingerprint Match
SB-30	0-1	6/29/2015	< 12.5	< 6.3	46.9	46.9	39.3	1.9	0.072	Pyrogenic HC
	2-3		< 5.5	< 5.5	58.5	58.5	57.3	6.8	1	Pyrogenic HC
	4-5		< 11.9	< 6	44.5	44.5	43.8	5.2	0.84	V. Deg. PHC
	6-7		< 1.3	< 0.67	< 0.27	< 0.67	< 0.13	< 0.03	< 0.013	PHC Not Detected
SB-31	0-1		< 1.1	< 0.56	12.6	12.6	12.5	1.4	0.16	V. Deg. PHC
	2-3		< 1.2	< 0.58	15.5	15.5	15.4	1.8	0.27	V. Deg. PHC
	4-5		< 1	< 0.52	18.5	18.5	16.5	0.79	0.01	V. Deg. PHC
	6-7		< 0.96	8.7	53.9	62.6	34.8	1.4	0.01	Deg. Fuel
	8-9		< 1.1	< 0.56	2.1	2.1	2.1	0.23	< 0.011	V. Deg. PHC
SB-32	0-2		< 1.1	< 0.53	20.4	20.4	20	2.6	0.41	V. Deg. PHC
	3-4		< 0.56	< 0.56	0.88	0.88	0.88	0.1	< 0.011	V. Deg. PHC
	5-6		< 0.63	< 0.32	0.25	0.25	0.25	0.03	< 0.006	V. Deg. PHC
SB-33	0-2		< 17.7	< 8.8	128.5	128.5	26	1.3	0.064	Deg. Fuel
	2-3		< 1.3	< 0.66	8.6	8.6	7.7	1	0.18	V. Deg. PHC
	4-5		< 1.4	< 0.69	5.2	5.2	4.7	0.22	0.014	V. Deg. PHC
	6-7		< 0.53	< 0.53	3.1	3.1	1.4	0.06	< 0.011	Deg. Fuel
SB-34	0-2		< 1.1	< 0.57	3.9	3.9	1.9	0.07	< 0.011	Deg. Fuel
	2-3		< 1	< 0.52	12.9	12.9	6.9	0.27	0.003	Deg. Fuel
	4-5		< 1.1	< 0.55	0.22	0.22	< 0.22	< 0.02	< 0.011	V. Deg. PHC
	6-7		< 0.98	< 0.49	0.6	0.6	0.6	0.06	< 0.01	V. Deg. PHC
	8-9		< 1.1	< 0.53	7.8	7.8	7.8	1	0.18	V. Deg. PHC
SB-36	0-2		< 1.1	< 0.54	10.2	10.2	2.1	0.11	0.007	Deg. Fuel
SB-37	2-4		< 1	< 0.52	12.5	12.5	12.2	1.6	0.25	V. Deg. PHC
	4-5		< 1.1	< 0.54	4.3	4.3	3.9	0.53	0.1	V. Deg. PHC
	6-7		< 0.53	< 0.53	< 0.21	< 0.53	< 0.11	< 0.02	< 0.011	V. Deg. PHC
	8-9		< 1.1	< 0.53	28.5	28.5	25.7	3.4	0.64	Pyrogenic HC
SB-38	0-2		< 1	< 0.51	11.6	11.6	2.2	0.11	0.007	Deg. Fuel
	2-4		< 0.53	< 0.27	0.14	0.14	0.14	0.02	0.005	Pyrogenic HC
	4-5		< 1.1	< 0.55	24.4	24.4	21.3	2.9	0.63	Pyrogenic HC
SB-39	0-2		< 1.1	< 0.53	7.8	7.8	7.5	0.88	0.12	V. Deg. PHC
	2-4		< 1.1	< 0.53	1.3	1.3	1.3	0.17	0.016	Pyrogenic HC
	4-6		< 1.1	< 0.53	27.7	27.7	27.6	3.6	0.66	V. Deg. PHC
SB-40	0-2		< 1	< 0.52	0.31	0.31	0.31	0.04	0.003	V. Deg. PHC
	2-4		< 0.58	< 0.29	0.12	0.12	< 0.09	< 0.01	< 0.006	V. Deg. PHC
	4-5		< 1.1	< 0.53	35.3	35.3	34.8	4.5	0.76	V. Deg. PHC
SB-41	0-2		< 1	< 0.52	3	3	2.7	0.37	0.083	V. Deg. PHC
	2-4		< 0.53	< 0.53	0.21	0.21	< 0.14	< 0.02	< 0.011	V. Deg. PHC
	4-5		< 1.1	< 0.53	7	7	2.7	0.37	0.083	V. Deg. PHC
NC DENR Action Level			13.8	10	10	10	NSE	7,041.41	0.096	

NSE = No Standard Exists

*Sample results shown in BOLD exceed NC DENR UST Section Standards as outlined in the NC DENR Guidelines



Table 2. Summary of Laboratory Analytical Results (Soil)

Boring	Date Collected	Sample Depth (feet bgs)	Toxicity Characteristic Leachate Procedure (TCLP)	VOCs (EPA 8260B)		SVOCs (EPA 8270)												MADEP VPH	MADEP EPH			
				Acetone	Anthracene	Benz(a)anthracene	Benz(a)pyrene	Benz(b)fluoranthene	Benz(g,h,i)perylene	Benz(k)fluoranthene	m- and p-Cresol (3/4 methylphenol)	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Pyrene	C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	
SB-30	6/29/15	4-5	ND	ND	ND	0.28 J	0.27 J	0.37 J	0.17 J	0.10 J	ND	0.29 J	ND	0.67	ND	ND	ND	0.49	ND	2.1 J	12	12
SB-31		6-7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11 J	ND	ND	ND	ND	ND	32	32	8.4 J
SB-32		0-2	ND	0.078	0.19 J	0.75	0.85	1.1	0.65	0.36 J	0.15 J	1.1	0.11 J	2.5	0.11 J	0.55	2.3	2.3	ND	ND	ND	ND
SB-34		0-2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3 J	8.6 J	12
SB-34		4-5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-36		0-2	ND	0.092	ND	0.27 J	0.25 J	0.38	0.16 J	0.11 J	ND	0.29 J	ND	0.54	ND	0.17 J	0.25 J	0.40	ND	2.0 J	3.5 J	12
SB-36		2-4	ND	0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-37		0-2	ND	0.083	0.24 J	0.54	0.49	0.71	0.32 J	0.22 J	ND	0.55	ND	1.2	0.095 J	0.33 J	0.90	0.87	ND	1.3 J	2.9 J	15
SB-38		0-2	ND	0.080	ND	0.16 J	0.15 J	0.21 J	0.096 J	ND	ND	0.18 J	ND	0.37	ND	0.098 J	0.20 J	0.27 J	ND	ND	ND	ND
SB-38		2-4	ND	0.051 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-39		0-2	ND	0.11	ND	0.15 J	0.14 J	0.21 J	ND	ND	ND	0.17 J	ND	0.33 J	ND	ND	0.14 J	0.24 J	ND	ND	2.3 J	20
SB-39		2-4	ND	0.11	ND	0.19 J	0.18 J	0.26 J	0.12 J	ND	ND	0.21 J	ND	0.48	ND	0.13 J	0.25 J	0.34 J	ND	ND	ND	ND
SB-40		0-2	ND	0.097	0.16 J	0.60	0.59	0.81	0.36 J	0.32 J	ND	0.63	ND	1.4	ND	0.39	0.73	1.1	ND	1.3 J	2.7 J	17
SB-41		0-2	ND	0.10	0.16 J	0.60	0.58	0.82	0.38	0.27 J	ND	0.67	ND	1.4	ND	0.39	0.83	1.1	ND	1.5 J	2.2 J	20
IHSB Protection of GW PSRG		NSE	24	660	0.18	0.059	0.6	7,800	5.9	4.4	18	0.19	330	56	3.5	68	220	varies	NSE	NSE	NSE	
IHSB Residential PSRG		NSE	12,000	3,400	0.15	0.015	0.15	NSE	1.5	1,820	15	0.015	460	460	0.15	NSE	340	varies	6.9	0.34	500	
IHSB Industrial PSRG		NSE	100,000	46,000	2.9	0.29	2.9	NSE	29	24,200	290	0.29	6,000	6,000	2.9	NSE	4,600	varies	6.9	0.34	6600	

All results are reported in mg/kg

J = Estimated concentration above the adjusted method detection limit and below the reporting limit

ND = Not Detected at a Concentration At or Above Method Detection Limit

-- = Not Sampled

NSE = No Standard Exists

PSRG = Preliminary Soil Remediation Goal

*Sample results shown in BOLD exceed IHSB Residential PSRGs



Table 3. Summary of Laboratory Analytical Results (Groundwater)

Boring	Date Collected	VOCs (EPA 8260B)			SVOCs (EPA 8270)			MADEP VPH			MADEP EPH			
		Acetone	1,1-Dichloroethane	1,1-Dichloroethylene	Vinyl chloride	Benzoic Acid	Diethyl phthalate	Di-n-butyl phthalate	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics	C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics
SB-30 GW	7/1/15	13	ND	ND	ND	--	--	--	--	--	--	--	--	--
SB-31 GW	6/29/15	2.9 J	ND	ND	ND	2.8 J	ND	ND	ND	ND	ND	ND	ND	ND
SB-32 GW	6/29/15	ND	0.68	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SB-33 GW	6/29/15	ND	0.51	11	0.56	ND	ND	ND	ND	ND	ND	ND	30	ND
SB-34 GW	6/29/15	5.7	ND	ND	ND	ND	11	5.7 J	ND	17 J	ND	ND	ND	ND
SB-35 GW	6/29/15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Existing MW	6/29/15	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NCAC 2L GWQ Standard		6,000	6	7	0.03	30,000	NSE	NSE	400	700	200	700	10,000	200
NCAC 2L GCL		6,000,000	6,000	7,000	30	1,700,000	NSE	NSE	NSE	NSE	NSE	NSE	NSE	NSE

All results are reported in ug/L

J = Estimated concentration above the adjusted method detection limit and below the reporting limit

ND = Not Detected at a Concentration At or Above Method Detection Limit

-- = Not Sampled

NSE = No Standard Exists

GWQ = Groundwater Quality

GCL = Gross Contamination Level

*Sample results shown in BOLD exceed 2L GWS Standard



BORING LOGS

Project No.	66S-0425-0001			Date:	July 17, 2015	
Project	Duke Diet and Fitness Center					
Boring No.	SB-30	Total Depth:	8	Elev:	Existing Ground Surface	Location: See Plan
Type of Boring:	Direct Push	Started:	6/29/2015	Completed:	7/1/2015	Driller: Regional Probing Services
Depth (ft.)	Description of Soils			PID Reading (ppm)	Remarks	
0-1	Dry, brown, sandy SILT			1.1		
1-2	Dry, dark gray, sandy SILT			0.6		
2-3	Dry, dark gray, silty sandy CLAY			0.6		
3-4				0.6		
4-5	Moist, light brown to brown, sandy silty CLAY			0.7	Soil sample collected for lab analysis	
5-6				0.2		
6-7	Moist, brown and gray, sandy CLAY			0.3		
7-8				0.3	GeoProbe refusal at 8 feet bgs	

*Temporary monitoring well installed at SB-30 was dry. Offset boring was advanced approx. 15' north in order to install TMW to a depth of 10'4".

GW was then encountered at a depth of 9'3".

Project No.	66S-0425-0001			Date:	July 17, 2015	
Project	Duke Diet and Fitness Center					
Boring No.	SB-31	Total Depth:	10	Elev:	Existing Ground Surface	Location: See Plan
Type of Boring:	Direct Push	Started:	6/29/2015	Completed:	7/1/2015	Driller: Regional Probing Services
Depth (ft.)	Description of Soils			PID Reading (ppm)	Remarks	
0-1				0.9		
1-2	Dry, brown, sandy SILT			0.8		
2-3				1.0		
3-4	Dry, brown, silty sandy CLAY			1.0		
4-5	Dry, brown, silty CLAY			0.9		
5-6				2.5	Petroleum odor	
6-7	Moist, gray, silty CLAY			1.0	Soil sample collected for lab analysis	
7-8	Moist, gray, sandy CLAY			1.1		
8-9				0.9		
9-10	Moist, gray, silty CLAY			1.2		

*Temporary monitoring well installed at SB-31 was dry. Offset boring was advanced approx. 15' north in order to install TMW to a depth of 8'.

GW was then encountered at a depth of 6'6".

Project No.	66S-0425-0001			Date:	July 17, 2015	
Project	Duke Diet and Fitness Center					
Boring No.	SB-32	Total Depth:	7	Elev:	Existing Ground Surface	Location: See Plan
Type of Boring:	Direct Push	Started:	6/29/2015	Completed:	6/29/2015	Driller: Regional Probing Services
Depth (ft.)	Description of Soils			PID Reading (ppm)	Remarks	
0-1				1.3		
1-2	Dry, dark gray, sandy SILT			1.6	Soil sample collected for lab analysis	
2-3				1.5		
3-4	Moist, gray, sandy SILT			1.4		
4-5	Moist, gray, fine sandy CLAY			1.3		
5-6				1.2		
6-7	Moist, gray, silty CLAY			1.2	GW observed at 6' bgs	

Project No.	66S-0425-0001			Date:	July 17, 2015	
Project	Duke Diet and Fitness Center					
Boring No.	SB-33	Total Depth:	8	Elev:	Existing Ground Surface	Location: See Plan
Type of Boring:	Direct Push	Started:	6/29/2015	Completed:	6/29/2015	Driller: Regional Probing Services
Depth (ft.)	Description of Soils			PID Reading (ppm)	Remarks	
0-1				1.5		
1-2	Dry, dark gray, sandy SILT			1.7	Brick fragments observed	
2-3				1.8		
3-4				1.6		
4-5	Moist, gray, silty CLAY			1.4	Brick fragments observed	
5-6	Moist, gray, CLAY			1.3		
6-7				1.1		
7-8	Moist, gray-brown, CLAY			1.0	GW observed at 8' bgs	



BORING LOGS

Project No.	66S-0425-0001			Date:	July 17, 2015	
Project	Duke Diet and Fitness Center					
Boring No.	SB-34	Total Depth:	10	Elev:	Existing Ground Surface	Location:
Type of Boring:	Direct Push	Started:	6/29/2015	Completed:	6/29/2015	Driller:
Depth (ft.)	Description of Soils			PID Reading (ppm)	Remarks	
0-1	Dry to moist, light brown to gray, sandy CLAY			1.0	Soil sample submitted for lab analysis	
1-2				1.1		
2-3				1.1		
3-4				1.0		
4-5				1.2		
5-6				1.2		
6-7				1.2		
7-8	Moist, brown, SAND			1.4		
8-9				1.3		
9-10	Dry, gray-green, SILT			0.8	GW observed at 10' bgs	

Project No.	66S-0425-0001			Date:	July 17, 2015	
Project	Duke Diet and Fitness Center					
Boring No.	SB-36	Total Depth:	8	Elev:	Existing Ground Surface	Location:
Type of Boring:	Direct Push	Started:	6/29/2015	Completed:	6/29/2015	Driller:
Depth (ft.)	Description of Soils			PID Reading (ppm)	Remarks	
0-1	Dry, brown to dark brown, sandy SILT			0.8	Soil sample submitted for lab analysis	
1-2				1.4		
2-3				1.6		
3-4				1.4		
4-5				1.5		
5-6				1.6		
6-7				1.5		
7-8	Moist, brown, sandy CLAY			1.5		

Project No.	66S-0425-0001			Date:	July 17, 2015	
Project	Duke Diet and Fitness Center					
Boring No.	SB-37	Total Depth:	8	Elev:	Existing Ground Surface	Location:
Type of Boring:	Direct Push	Started:	6/29/2015	Completed:	6/29/2015	Driller:
Depth (ft.)	Description of Soils			PID Reading (ppm)	Remarks	
0-1	Dry to moist, brown to dark brown, sandy SILT			1.6	Soil sample submitted for lab analysis	
1-2				0.9		
2-3				0.8		
3-4				1.0		
4-5				1.1		
5-6				0.9		
6-7				1.2		
7-8	Moist, brown to gray, sandy CLAY			1.4		

Project No.	66S-0425-0001			Date:	July 17, 2015	
Project	Duke Diet and Fitness Center					
Boring No.	SB-38	Total Depth:	8	Elev:	Existing Ground Surface	Location:
Type of Boring:	Direct Push	Started:	6/29/2015	Completed:	6/29/2015	Driller:
Depth (ft.)	Description of Soils			PID Reading (ppm)	Remarks	
0-1	Dry, dark brown, sandy SILT Dry, red-brown, SILT			0.9	Soil sample submitted for lab analysis (brick fragments observed 1-2')	
1-2				0.9		
2-3				1.1		
3-4				1.2		
4-5				1.1		
5-6				1.3		
6-7				1.3		
7-8	Moist, brown, sandy CLAY			1.0		



BORING LOGS

Project No.	66S-0425-0001			Date:	July 17, 2015	
Project	Duke Diet and Fitness Center					
Boring No.	SB-39	Total Depth:	8	Elev:	Existing Ground Surface	Location:
Type of Boring:	Direct Push	Started:	6/29/2015	Completed:	6/29/2015	Driller:
Depth (ft.)	Description of Soils			PID Reading (ppm)	Remarks	
0-1	Dry, dark brown, sandy SILT			1.2	Soil sample submitted for lab analysis	
1-2				1.5		
2-3				1.5		
3-4	Dry, dark brown, SILT			1.6	Soil sample submitted for lab analysis	
4-5	Dry, dark brown, sandy SILT			1.7		
5-6	Moist, brown, sandy silty CLAY			1.1		
6-7	Wet, gray, silty CLAY			1.2		
7-8	Wet, light gray, silty SAND			0.9		

Project No.	66S-0425-0001			Date:	July 17, 2015	
Project	Duke Diet and Fitness Center					
Boring No.	SB-40	Total Depth:	8	Elev:	Existing Ground Surface	Location:
Type of Boring:	Direct Push	Started:	6/29/2015	Completed:	6/29/2015	Driller:
Depth (ft.)	Description of Soils			PID Reading (ppm)	Remarks	
0-1	Moist, brown, sandy SILT			1.5	Soil sample submitted for lab analysis	
1-2	Dry, light brown, sandy SILT			0.9		
2-3	Dry, brown, sandy silty CLAY			0.9		
3-4				1.0		
4-5				0.8		
5-6	Dry, dark gray, CLAY			1.0		
6-7				0.9		
7-8	Moist, gray, sandy CLAY			0.8		

Project No.	66S-0425-0001			Date:	July 17, 2015	
Project	Duke Diet and Fitness Center					
Boring No.	SB-41	Total Depth:	8	Elev:	Existing Ground Surface	Location:
Type of Boring:	Direct Push	Started:	6/29/2015	Completed:	6/29/2015	Driller:
Depth (ft.)	Description of Soils			PID Reading (ppm)	Remarks	
0-1	Dry, brown, sandy SILT			1.2	Soil sample submitted for lab analysis	
1-2				1.1		
2-3				1.2		
3-4				1.3		
4-5				1.1		
5-6	Dry, gray to gray-brown, sandy CLAY			1.2		
6-7				1.2		
7-8				1.1		



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Case Narrative

07/14/2015

Froehling & Robertson, Inc. (Raleigh)
Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Lab Submittal Date: 07/01/2015
Prism Work Order: 5070005

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

TCLP Herbicide analysis was subcontracted to AES. Laboratory report is attached.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash

VP Laboratory Services

Reviewed By Robbi A. Jones For Angela D. Overcash

President/Project Manager

Data Qualifiers Key Reference:

- A LCS/LCSD result is below the control limits. CCV recovery within the limits. Analyte not detected in the sample down to the MDL. No further action taken.
- CCV CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
- CVL CCV result is below the control limits. LCS recovery within the limits. Analyte not detected in the sample. No further action taken.
- D RPD value outside of the control limits.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- L1 LCS recovery outside of the QC limits. LCSD recovery within the limits. No further action taken.
- L2 LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
- LH High LCS recovery. Analyte not detected in the sample(s). No further action taken.
- M Matrix spike outside of the control limits.
- MI Matrix spike outside of the control limits. Matrix interference suspected.
- SR Surrogate recovery outside the QC limits.
- BRL Below Reporting Limit
- MDL Method Detection Limit
- RPD Relative Percent Difference
- * Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.



Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SB-30 4-5	5070005-01	Solid	06/29/15	07/01/15
SB-31 6-7	5070005-02	Solid	06/29/15	07/01/15
SB-32 0-2	5070005-03	Solid	06/29/15	07/01/15
SB-35 1	5070005-04	Solid	06/29/15	07/01/15
SB-34 0-2	5070005-05	Solid	06/29/15	07/01/15
SB-42 1	5070005-06	Solid	06/29/15	07/01/15
SB-36 0-2	5070005-07	Solid	06/29/15	07/01/15
SB-34 4-5	5070005-08	Solid	06/29/15	07/01/15
SB-36 2-4	5070005-09	Solid	06/29/15	07/01/15
SB-37 0-2	5070005-10	Solid	06/29/15	07/01/15
SB-38 0-2	5070005-11	Solid	06/29/15	07/01/15
SB-38 2-4	5070005-12	Solid	06/29/15	07/01/15
SB-39 0-2	5070005-13	Solid	06/29/15	07/01/15
SB-39 2-4	5070005-14	Solid	06/29/15	07/01/15
SB-40 0-2	5070005-15	Solid	06/29/15	07/01/15
SB-41 0-2	5070005-16	Solid	06/29/15	07/01/15
SB-32 GW	5070005-17	Water	06/29/15	07/01/15
SB-33 GW	5070005-18	Water	06/29/15	07/01/15
SB-35 GW	5070005-19	Water	06/29/15	07/01/15
SB-34 GW	5070005-20	Water	06/29/15	07/01/15
MW-14	5070005-21	Water	06/29/15	07/01/15

Samples were received in good condition at 4.0 degrees C unless otherwise noted.

Prism ID	Client ID	Parameter	Method	Result		Units
5070005-01	SB-30 4-5	C9-C18 Aliphatics	MADEP EPH	2.1	J	mg/kg dry
5070005-01	SB-30 4-5	C19-C36 Aliphatics	MADEP EPH	12		mg/kg dry
5070005-01	SB-30 4-5	C11-C22 Aromatics	MADEP EPH	12		mg/kg dry
5070005-01	SB-30 4-5	Benzo(a)anthracene	8270D	0.28	J	mg/kg dry
5070005-01	SB-30 4-5	Benzo(a)pyrene	8270D	0.27	J	mg/kg dry
5070005-01	SB-30 4-5	Benzo(b)fluoranthene	8270D	0.37	J	mg/kg dry
5070005-01	SB-30 4-5	Benzo(g,h,i)perylene	8270D	0.17	J	mg/kg dry
5070005-01	SB-30 4-5	Benzo(k)fluoranthene	8270D	0.10	J	mg/kg dry
5070005-01	SB-30 4-5	Chrysene	8270D	0.29	J	mg/kg dry
5070005-01	SB-30 4-5	Fluoranthene	8270D	0.67		mg/kg dry
5070005-01	SB-30 4-5	Phenanthrene	8270D	0.40		mg/kg dry
5070005-01	SB-30 4-5	Pyrene	8270D	0.49		mg/kg dry
5070005-02	SB-31 6-7	C9-C18 Aliphatics	MADEP EPH	32		mg/kg dry
5070005-02	SB-31 6-7	C19-C36 Aliphatics	MADEP EPH	32		mg/kg dry
5070005-02	SB-31 6-7	C11-C22 Aromatics	MADEP EPH	8.4	J	mg/kg dry
5070005-02	SB-31 6-7	Fluoranthene	8270D	0.11	J	mg/kg dry
5070005-03	SB-32 0-2	3/4-Methylphenol	8270D	0.15	J	mg/kg dry
5070005-03	SB-32 0-2	Anthracene	8270D	0.19	J	mg/kg dry
5070005-03	SB-32 0-2	Benzo(a)anthracene	8270D	0.75		mg/kg dry
5070005-03	SB-32 0-2	Benzo(a)pyrene	8270D	0.85		mg/kg dry
5070005-03	SB-32 0-2	Benzo(b)fluoranthene	8270D	1.1		mg/kg dry
5070005-03	SB-32 0-2	Benzo(g,h,i)perylene	8270D	0.65		mg/kg dry
5070005-03	SB-32 0-2	Benzo(k)fluoranthene	8270D	0.36	J	mg/kg dry
5070005-03	SB-32 0-2	Chrysene	8270D	1.1		mg/kg dry
5070005-03	SB-32 0-2	Dibenz(a,h)anthracene	8270D	0.11	J	mg/kg dry
5070005-03	SB-32 0-2	Fluoranthene	8270D	2.5		mg/kg dry
5070005-03	SB-32 0-2	Fluorene	8270D	0.11	J	mg/kg dry
5070005-03	SB-32 0-2	Indeno(1,2,3-cd)pyrene	8270D	0.55		mg/kg dry
5070005-03	SB-32 0-2	Phenanthrene	8270D	2.3		mg/kg dry
5070005-03	SB-32 0-2	Pyrene	8270D	2.3		mg/kg dry
5070005-03	SB-32 0-2	Acetone	8260B	0.078		mg/kg dry
5070005-05	SB-34 0-2	C9-C18 Aliphatics	MADEP EPH	2.3	J	mg/kg dry
5070005-05	SB-34 0-2	C19-C36 Aliphatics	MADEP EPH	8.6	J	mg/kg dry
5070005-05	SB-34 0-2	C11-C22 Aromatics	MADEP EPH	12		mg/kg dry
5070005-07	SB-36 0-2	C9-C18 Aliphatics	MADEP EPH	2.0	J	mg/kg dry
5070005-07	SB-36 0-2	C19-C36 Aliphatics	MADEP EPH	3.5	J	mg/kg dry
5070005-07	SB-36 0-2	C11-C22 Aromatics	MADEP EPH	12		mg/kg dry
5070005-07	SB-36 0-2	Benzo(a)anthracene	8270D	0.27	J	mg/kg dry
5070005-07	SB-36 0-2	Benzo(a)pyrene	8270D	0.25	J	mg/kg dry
5070005-07	SB-36 0-2	Benzo(b)fluoranthene	8270D	0.38		mg/kg dry
5070005-07	SB-36 0-2	Benzo(g,h,i)perylene	8270D	0.16	J	mg/kg dry
5070005-07	SB-36 0-2	Benzo(k)fluoranthene	8270D	0.11	J	mg/kg dry
5070005-07	SB-36 0-2	Chrysene	8270D	0.29	J	mg/kg dry
5070005-07	SB-36 0-2	Fluoranthene	8270D	0.54		mg/kg dry

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Prism ID	Client ID	Parameter	Method	Result		Units
5070005-07	SB-36 0-2	Indeno(1,2,3-cd)pyrene	8270D	0.17	J	mg/kg dry
5070005-07	SB-36 0-2	Phenanthrene	8270D	0.25	J	mg/kg dry
5070005-07	SB-36 0-2	Pyrene	8270D	0.40		mg/kg dry
5070005-07	SB-36 0-2	Acetone	8260B	0.092		mg/kg dry
5070005-09	SB-36 2-4	Acetone	8260B	0.10		mg/kg dry
5070005-10	SB-37 0-2	C9-C18 Aliphatics	MADEP EPH	1.3	J	mg/kg dry
5070005-10	SB-37 0-2	C19-C36 Aliphatics	MADEP EPH	2.9	J	mg/kg dry
5070005-10	SB-37 0-2	C11-C22 Aromatics	MADEP EPH	15		mg/kg dry
5070005-10	SB-37 0-2	Anthracene	8270D	0.24	J	mg/kg dry
5070005-10	SB-37 0-2	Benzo(a)anthracene	8270D	0.54		mg/kg dry
5070005-10	SB-37 0-2	Benzo(a)pyrene	8270D	0.49		mg/kg dry
5070005-10	SB-37 0-2	Benzo(b)fluoranthene	8270D	0.71		mg/kg dry
5070005-10	SB-37 0-2	Benzo(g,h,i)perylene	8270D	0.32	J	mg/kg dry
5070005-10	SB-37 0-2	Benzo(k)fluoranthene	8270D	0.22	J	mg/kg dry
5070005-10	SB-37 0-2	Chrysene	8270D	0.55		mg/kg dry
5070005-10	SB-37 0-2	Fluoranthene	8270D	1.2		mg/kg dry
5070005-10	SB-37 0-2	Fluorene	8270D	0.095	J	mg/kg dry
5070005-10	SB-37 0-2	Indeno(1,2,3-cd)pyrene	8270D	0.33	J	mg/kg dry
5070005-10	SB-37 0-2	Phenanthrene	8270D	0.90		mg/kg dry
5070005-10	SB-37 0-2	Pyrene	8270D	0.87		mg/kg dry
5070005-10	SB-37 0-2	Acetone	8260B	0.083		mg/kg dry
5070005-11	SB-38 0-2	Benzo(a)anthracene	8270D	0.16	J	mg/kg dry
5070005-11	SB-38 0-2	Benzo(a)pyrene	8270D	0.15	J	mg/kg dry
5070005-11	SB-38 0-2	Benzo(b)fluoranthene	8270D	0.21	J	mg/kg dry
5070005-11	SB-38 0-2	Benzo(g,h,i)perylene	8270D	0.096	J	mg/kg dry
5070005-11	SB-38 0-2	Chrysene	8270D	0.18	J	mg/kg dry
5070005-11	SB-38 0-2	Fluoranthene	8270D	0.37		mg/kg dry
5070005-11	SB-38 0-2	Indeno(1,2,3-cd)pyrene	8270D	0.098	J	mg/kg dry
5070005-11	SB-38 0-2	Phenanthrene	8270D	0.20	J	mg/kg dry
5070005-11	SB-38 0-2	Pyrene	8270D	0.27	J	mg/kg dry
5070005-11	SB-38 0-2	Acetone	8260B	0.080		mg/kg dry
5070005-12	SB-38 2-4	Acetone	8260B	0.051	J	mg/kg dry
5070005-13	SB-39 0-2	C19-C36 Aliphatics	MADEP EPH	2.3	J	mg/kg dry
5070005-13	SB-39 0-2	C11-C22 Aromatics	MADEP EPH	20		mg/kg dry
5070005-13	SB-39 0-2	Benzo(a)anthracene	8270D	0.15	J	mg/kg dry
5070005-13	SB-39 0-2	Benzo(a)pyrene	8270D	0.14	J	mg/kg dry
5070005-13	SB-39 0-2	Benzo(b)fluoranthene	8270D	0.21	J	mg/kg dry
5070005-13	SB-39 0-2	Chrysene	8270D	0.17	J	mg/kg dry
5070005-13	SB-39 0-2	Fluoranthene	8270D	0.33	J	mg/kg dry
5070005-13	SB-39 0-2	Phenanthrene	8270D	0.14	J	mg/kg dry
5070005-13	SB-39 0-2	Pyrene	8270D	0.24	J	mg/kg dry
5070005-13	SB-39 0-2	Acetone	8260B	0.11		mg/kg dry
5070005-14	SB-39 2-4	Benzo(a)anthracene	8270D	0.19	J	mg/kg dry
5070005-14	SB-39 2-4	Benzo(a)pyrene	8270D	0.18	J	mg/kg dry
5070005-14	SB-39 2-4	Benzo(b)fluoranthene	8270D	0.26	J	mg/kg dry

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Prism ID	Client ID	Parameter	Method	Result	Units
5070005-14	SB-39 2-4	Benzo(g,h,i)perylene	8270D	0.12	J mg/kg dry
5070005-14	SB-39 2-4	Chrysene	8270D	0.21	J mg/kg dry
5070005-14	SB-39 2-4	Fluoranthene	8270D	0.48	mg/kg dry
5070005-14	SB-39 2-4	Indeno(1,2,3-cd)pyrene	8270D	0.13	J mg/kg dry
5070005-14	SB-39 2-4	Phenanthrene	8270D	0.25	J mg/kg dry
5070005-14	SB-39 2-4	Pyrene	8270D	0.34	J mg/kg dry
5070005-14	SB-39 2-4	Acetone	8260B	0.11	mg/kg dry
5070005-15	SB-40 0-2	C9-C18 Aliphatics	MADEP EPH	1.3	J mg/kg dry
5070005-15	SB-40 0-2	C19-C36 Aliphatics	MADEP EPH	2.7	J mg/kg dry
5070005-15	SB-40 0-2	C11-C22 Aromatics	MADEP EPH	17	mg/kg dry
5070005-15	SB-40 0-2	Anthracene	8270D	0.16	J mg/kg dry
5070005-15	SB-40 0-2	Benzo(a)anthracene	8270D	0.60	mg/kg dry
5070005-15	SB-40 0-2	Benzo(a)pyrene	8270D	0.59	mg/kg dry
5070005-15	SB-40 0-2	Benzo(b)fluoranthene	8270D	0.81	mg/kg dry
5070005-15	SB-40 0-2	Benzo(g,h,i)perylene	8270D	0.36	J mg/kg dry
5070005-15	SB-40 0-2	Benzo(k)fluoranthene	8270D	0.32	J mg/kg dry
5070005-15	SB-40 0-2	Chrysene	8270D	0.63	mg/kg dry
5070005-15	SB-40 0-2	Fluoranthene	8270D	1.4	mg/kg dry
5070005-15	SB-40 0-2	Indeno(1,2,3-cd)pyrene	8270D	0.39	mg/kg dry
5070005-15	SB-40 0-2	Phenanthrene	8270D	0.73	mg/kg dry
5070005-15	SB-40 0-2	Pyrene	8270D	1.1	mg/kg dry
5070005-15	SB-40 0-2	Acetone	8260B	0.097	mg/kg dry
5070005-16	SB-41 0-2	C9-C18 Aliphatics	MADEP EPH	1.5	J mg/kg dry
5070005-16	SB-41 0-2	C19-C36 Aliphatics	MADEP EPH	2.2	J mg/kg dry
5070005-16	SB-41 0-2	C11-C22 Aromatics	MADEP EPH	20	mg/kg dry
5070005-16	SB-41 0-2	Anthracene	8270D	0.16	J mg/kg dry
5070005-16	SB-41 0-2	Benzo(a)anthracene	8270D	0.60	mg/kg dry
5070005-16	SB-41 0-2	Benzo(a)pyrene	8270D	0.58	mg/kg dry
5070005-16	SB-41 0-2	Benzo(b)fluoranthene	8270D	0.82	mg/kg dry
5070005-16	SB-41 0-2	Benzo(g,h,i)perylene	8270D	0.38	mg/kg dry
5070005-16	SB-41 0-2	Benzo(k)fluoranthene	8270D	0.27	J mg/kg dry
5070005-16	SB-41 0-2	Chrysene	8270D	0.67	mg/kg dry
5070005-16	SB-41 0-2	Fluoranthene	8270D	1.4	mg/kg dry
5070005-16	SB-41 0-2	Indeno(1,2,3-cd)pyrene	8270D	0.39	mg/kg dry
5070005-16	SB-41 0-2	Phenanthrene	8270D	0.83	mg/kg dry
5070005-16	SB-41 0-2	Pyrene	8270D	1.1	mg/kg dry
5070005-16	SB-41 0-2	Acetone	8260B	0.10	mg/kg dry
5070005-17	SB-32 GW	1,1-Dichloroethane	8260B	0.68	ug/L
5070005-17	SB-32 GW	1,1-Dichloroethylene	8260B	2.0	ug/L
5070005-18	SB-33 GW	C19-C36 Aliphatics	MADEP EPH	30	ug/L
5070005-18	SB-33 GW	1,1-Dichloroethane	8260B	0.51	ug/L
5070005-18	SB-33 GW	1,1-Dichloroethylene	8260B	11	ug/L
5070005-18	SB-33 GW	Vinyl chloride	8260B	0.56	ug/L
5070005-20	SB-34 GW	Diethyl phthalate	8270D	11	ug/L
5070005-20	SB-34 GW	Di-n-butyl phthalate	8270D	5.7	J ug/L

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Prism ID	Client ID	Parameter	Method	Result		Units
5070005-20	SB-34 GW	Acetone	8260B	5.7		ug/L
5070005-20	SB-34 GW	C9-C12 Aliphatics	MADEP VPH	17	J	ug/L
5070005-21	MW-14	1,1-Dichloroethylene	8260B	1.1		ug/L

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-30 4-5
Prism Sample ID: 5070005-01
Prism Work Order: 5070005
Time Collected: 06/29/15 11:45
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	2.1 J	mg/kg dry	12	0.85	1	MADEP EPH	7/8/15 0:50	ZRC	P5G0052
C19-C36 Aliphatics	12	mg/kg dry	12	1.1	1	MADEP EPH	7/8/15 0:50	ZRC	P5G0052
C11-C22 Aromatics	12	mg/kg dry	12	3.0	1	MADEP EPH	7/8/15 0:50	ZRC	P5G0052
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	67 %		40-140
						o-Terphenyl	69 %		40-140
						2-Fluorobiphenyl	68 %		40-140
						2-Bromonaphthalene	75 %		40-140
General Chemistry Parameters									
% Solids	84.8	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.39	0.061	1	8270D	7/6/15 18:45	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.39	0.059	1	8270D	7/6/15 18:45	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 18:45	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.39	0.057	1	8270D	7/6/15 18:45	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.39	0.075	1	8270D	7/6/15 18:45	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.39	0.073	1	8270D	7/6/15 18:45	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.39	0.075	1	8270D	7/6/15 18:45	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.39	0.060	1	8270D	7/6/15 18:45	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.39	0.054	1	8270D	7/6/15 18:45	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.39	0.047	1	8270D	7/6/15 18:45	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.39	0.052	1	8270D	7/6/15 18:45	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.39	0.056	1	8270D	7/6/15 18:45	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 18:45	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.39	0.062	1	8270D	7/6/15 18:45	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.39	0.050	1	8270D	7/6/15 18:45	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.39	0.071	1	8270D	7/6/15 18:45	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.39	0.077	1	8270D	7/6/15 18:45	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.39	0.048	1	8270D	7/6/15 18:45	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.39	0.058	1	8270D	7/6/15 18:45	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.39	0.067	1	8270D	7/6/15 18:45	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 18:45	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.39	0.047	1	8270D	7/6/15 18:45	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 18:45	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.39	0.060	1	8270D	7/6/15 18:45	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.39	0.053	1	8270D	7/6/15 18:45	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.39	0.056	1	8270D	7/6/15 18:45	JMV	P5G0053
Anthracene	BRL	mg/kg dry	0.39	0.063	1	8270D	7/6/15 18:45	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 18:45	JMV	P5G0053
Benzo(a)anthracene	0.28 J	mg/kg dry	0.39	0.051	1	8270D	7/6/15 18:45	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-30 4-5
Prism Sample ID: 5070005-01
Prism Work Order: 5070005
Time Collected: 06/29/15 11:45
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)pyrene	0.27 J	mg/kg dry	0.39	0.042	1	8270D	7/6/15 18:45	JMV	P5G0053
Benzo(b)fluoranthene	0.37 J	mg/kg dry	0.39	0.045	1	8270D	7/6/15 18:45	JMV	P5G0053
Benzo(g,h,i)perylene	0.17 J	mg/kg dry	0.39	0.043	1	8270D	7/6/15 18:45	JMV	P5G0053
Benzo(k)fluoranthene	0.10 J	mg/kg dry	0.39	0.051	1	8270D	7/6/15 18:45	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.39	0.033	1	8270D	7/6/15 18:45	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 18:45	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.39	0.068	1	8270D	7/6/15 18:45	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.39	0.055	1	8270D	7/6/15 18:45	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.39	0.066	1	8270D	7/6/15 18:45	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.39	0.058	1	8270D	7/6/15 18:45	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 18:45	JMV	P5G0053
Chrysene	0.29 J	mg/kg dry	0.39	0.049	1	8270D	7/6/15 18:45	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.39	0.047	1	8270D	7/6/15 18:45	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.39	0.059	1	8270D	7/6/15 18:45	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.39	0.054	1	8270D	7/6/15 18:45	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 18:45	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 18:45	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.39	0.048	1	8270D	7/6/15 18:45	JMV	P5G0053
Fluoranthene	0.67	mg/kg dry	0.39	0.050	1	8270D	7/6/15 18:45	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.39	0.056	1	8270D	7/6/15 18:45	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.39	0.062	1	8270D	7/6/15 18:45	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.39	0.070	1	8270D	7/6/15 18:45	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.39	0.069	1	8270D	7/6/15 18:45	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.39	0.065	1	8270D	7/6/15 18:45	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.39	0.045	1	8270D	7/6/15 18:45	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.39	0.053	1	8270D	7/6/15 18:45	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.39	0.063	1	8270D	7/6/15 18:45	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 18:45	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.39	0.061	1	8270D	7/6/15 18:45	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.39	0.059	1	8270D	7/6/15 18:45	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.39	0.046	1	8270D	7/6/15 18:45	JMV	P5G0053
Phenanthrene	0.40	mg/kg dry	0.39	0.051	1	8270D	7/6/15 18:45	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.39	0.057	1	8270D	7/6/15 18:45	JMV	P5G0053
Pyrene	0.49	mg/kg dry	0.39	0.052	1	8270D	7/6/15 18:45	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	105 %	39-132
2-Fluorobiphenyl	100 %	44-115
2-Fluorophenol	98 %	35-115
Nitrobenzene-d5	88 %	37-122
Phenol-d5	98 %	34-121
Terphenyl-d14	88 %	54-127

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0042	0.00034	1	8260B	7/2/15 14:24	MSC	P5G0040
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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-30 4-5
Prism Sample ID: 5070005-01
Prism Work Order: 5070005
Time Collected: 06/29/15 11:45
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0042	0.00020	1	8260B	7/2/15 14:24	MSC	P5G0040
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0042	0.00028	1	8260B	7/2/15 14:24	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0042	0.00037	1	8260B	7/2/15 14:24	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0042	0.00012	1	8260B	7/2/15 14:24	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0042	0.00018	1	8260B	7/2/15 14:24	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0042	0.00023	1	8260B	7/2/15 14:24	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0042	0.00024	1	8260B	7/2/15 14:24	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0042	0.00053	1	8260B	7/2/15 14:24	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0042	0.00031	1	8260B	7/2/15 14:24	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0042	0.00032	1	8260B	7/2/15 14:24	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0042	0.00017	1	8260B	7/2/15 14:24	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0042	0.00020	1	8260B	7/2/15 14:24	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0042	0.00025	1	8260B	7/2/15 14:24	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0042	0.00026	1	8260B	7/2/15 14:24	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0042	0.00031	1	8260B	7/2/15 14:24	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0042	0.00028	1	8260B	7/2/15 14:24	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0042	0.00021	1	8260B	7/2/15 14:24	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0042	0.00016	1	8260B	7/2/15 14:24	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0042	0.00020	1	8260B	7/2/15 14:24	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0042	0.00021	1	8260B	7/2/15 14:24	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0042	0.00025	1	8260B	7/2/15 14:24	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0042	0.00020	1	8260B	7/2/15 14:24	MSC	P5G0040
Acetone	BRL	mg/kg dry	0.042	0.0010	1	8260B	7/2/15 14:24	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0025	0.00024	1	8260B	7/2/15 14:24	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0042	0.00035	1	8260B	7/2/15 14:24	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0042	0.00023	1	8260B	7/2/15 14:24	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0042	0.00023	1	8260B	7/2/15 14:24	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0042	0.00047	1	8260B	7/2/15 14:24	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.0083	0.00051	1	8260B	7/2/15 14:24	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0042	0.00021	1	8260B	7/2/15 14:24	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0042	0.00022	1	8260B	7/2/15 14:24	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.0083	0.00035	1	8260B	7/2/15 14:24	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0042	0.00030	1	8260B	7/2/15 14:24	MSC	P5G0040
Chlormethane	BRL	mg/kg dry	0.0042	0.00028	1	8260B	7/2/15 14:24	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0042	0.00018	1	8260B	7/2/15 14:24	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0042	0.00014	1	8260B	7/2/15 14:24	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0042	0.00017	1	8260B	7/2/15 14:24	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0042	0.00019	1	8260B	7/2/15 14:24	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0042	0.00016	1	8260B	7/2/15 14:24	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0042	0.00017	1	8260B	7/2/15 14:24	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0042	0.00025	1	8260B	7/2/15 14:24	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.0083	0.00038	1	8260B	7/2/15 14:24	MSC	P5G0040
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.042	0.00038	1	8260B	7/2/15 14:24	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-30 4-5
Prism Sample ID: 5070005-01
Prism Work Order: 5070005
Time Collected: 06/29/15 11:45
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.083	0.00038	1	8260B	7/2/15 14:24	MSC	P5G0040
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.042	0.00035	1	8260B	7/2/15 14:24	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0042	0.00023	1	8260B	7/2/15 14:24	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0083	0.00013	1	8260B	7/2/15 14:24	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.0083	0.00013	1	8260B	7/2/15 14:24	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0042	0.00021	1	8260B	7/2/15 14:24	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0042	0.00025	1	8260B	7/2/15 14:24	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0042	0.00017	1	8260B	7/2/15 14:24	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0042	0.00020	1	8260B	7/2/15 14:24	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0042	0.00025	1	8260B	7/2/15 14:24	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0042	0.00014	1	8260B	7/2/15 14:24	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0042	0.00020	1	8260B	7/2/15 14:24	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0042	0.00024	1	8260B	7/2/15 14:24	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0042	0.00025	1	8260B	7/2/15 14:24	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0042	0.00022	1	8260B	7/2/15 14:24	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0042	0.00027	1	8260B	7/2/15 14:24	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0042	0.00027	1	8260B	7/2/15 14:24	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.021	0.00057	1	8260B	7/2/15 14:24	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0042	0.00020	1	8260B	7/2/15 14:24	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.012	0.00078	1	8260B	7/2/15 14:24	MSC	P5G0040
<hr/>									
Surrogate									
4-Bromofluorobenzene									
118 %									
Dibromofluoromethane									
105 %									
Toluene-d8									
100 %									
76-129									

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.1	0.16	100	MADEP VPH	7/6/15 18:17	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	4.1	0.37	100	MADEP VPH	7/6/15 18:17	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	4.1	0.035	100	MADEP VPH	7/6/15 18:17	ANG	P5G0058
<hr/>									
Surrogate									
2,5-Dibromotoluene (PID)									
121 %									
2,5-Dibromotoluene (FID)									
123 %									
70-130									
70-130									

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-31 6-7
Prism Sample ID: 5070005-02
Prism Work Order: 5070005
Time Collected: 06/29/15 11:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	32	mg/kg dry	13	0.95	1	MADEP EPH	7/8/15 1:26	ZRC	P5G0052
C19-C36 Aliphatics	32	mg/kg dry	13	1.3	1	MADEP EPH	7/8/15 1:26	ZRC	P5G0052
C11-C22 Aromatics	8.4 J	mg/kg dry	13	3.4	1	MADEP EPH	7/8/15 1:26	ZRC	P5G0052
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	78 %		40-140
						o-Terphenyl	64 %		40-140
						2-Fluorobiphenyl	71 %		40-140
						2-Bromonaphthalene	76 %		40-140
General Chemistry Parameters									
% Solids	75.5	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.44	0.068	1	8270D	7/6/15 19:06	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.44	0.066	1	8270D	7/6/15 19:06	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 19:06	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.44	0.064	1	8270D	7/6/15 19:06	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.44	0.084	1	8270D	7/6/15 19:06	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.44	0.082	1	8270D	7/6/15 19:06	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.44	0.085	1	8270D	7/6/15 19:06	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.44	0.067	1	8270D	7/6/15 19:06	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.44	0.061	1	8270D	7/6/15 19:06	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.44	0.053	1	8270D	7/6/15 19:06	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 19:06	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.44	0.063	1	8270D	7/6/15 19:06	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 19:06	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.44	0.070	1	8270D	7/6/15 19:06	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.44	0.056	1	8270D	7/6/15 19:06	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.44	0.080	1	8270D	7/6/15 19:06	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.44	0.086	1	8270D	7/6/15 19:06	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.44	0.054	1	8270D	7/6/15 19:06	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.44	0.066	1	8270D	7/6/15 19:06	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.44	0.075	1	8270D	7/6/15 19:06	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.44	0.061	1	8270D	7/6/15 19:06	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.44	0.053	1	8270D	7/6/15 19:06	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.44	0.057	1	8270D	7/6/15 19:06	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.44	0.067	1	8270D	7/6/15 19:06	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.44	0.059	1	8270D	7/6/15 19:06	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.44	0.063	1	8270D	7/6/15 19:06	JMV	P5G0053
Anthracene	BRL	mg/kg dry	0.44	0.070	1	8270D	7/6/15 19:06	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 19:06	JMV	P5G0053
Benzo(a)anthracene	BRL	mg/kg dry	0.44	0.057	1	8270D	7/6/15 19:06	JMV	P5G0053
Benzo(a)pyrene	BRL	mg/kg dry	0.44	0.047	1	8270D	7/6/15 19:06	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-31 6-7
Prism Sample ID: 5070005-02
Prism Work Order: 5070005
Time Collected: 06/29/15 11:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.44	0.051	1	8270D	7/6/15 19:06	JMV	P5G0053
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.44	0.048	1	8270D	7/6/15 19:06	JMV	P5G0053
Benzo(k)fluoranthene	BRL	mg/kg dry	0.44	0.057	1	8270D	7/6/15 19:06	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.44	0.037	1	8270D	7/6/15 19:06	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 19:06	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.44	0.076	1	8270D	7/6/15 19:06	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.44	0.062	1	8270D	7/6/15 19:06	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.44	0.075	1	8270D	7/6/15 19:06	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.44	0.065	1	8270D	7/6/15 19:06	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 19:06	JMV	P5G0053
Chrysene	BRL	mg/kg dry	0.44	0.055	1	8270D	7/6/15 19:06	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.44	0.053	1	8270D	7/6/15 19:06	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.44	0.067	1	8270D	7/6/15 19:06	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.44	0.060	1	8270D	7/6/15 19:06	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 19:06	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 19:06	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.44	0.054	1	8270D	7/6/15 19:06	JMV	P5G0053
Fluoranthene	0.11 J	mg/kg dry	0.44	0.056	1	8270D	7/6/15 19:06	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.44	0.063	1	8270D	7/6/15 19:06	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.44	0.069	1	8270D	7/6/15 19:06	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.44	0.079	1	8270D	7/6/15 19:06	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.44	0.078	1	8270D	7/6/15 19:06	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.44	0.073	1	8270D	7/6/15 19:06	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.44	0.050	1	8270D	7/6/15 19:06	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.44	0.059	1	8270D	7/6/15 19:06	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.44	0.070	1	8270D	7/6/15 19:06	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 19:06	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.44	0.069	1	8270D	7/6/15 19:06	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.44	0.067	1	8270D	7/6/15 19:06	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.44	0.052	1	8270D	7/6/15 19:06	JMV	P5G0053
Phenanthrene	BRL	mg/kg dry	0.44	0.057	1	8270D	7/6/15 19:06	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.44	0.065	1	8270D	7/6/15 19:06	JMV	P5G0053
Pyrene	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 19:06	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	117 %	39-132
2-Fluorobiphenyl	106 %	44-115
2-Fluorophenol	106 %	35-115
Nitrobenzene-d5	98 %	37-122
Phenol-d5	107 %	34-121
Terphenyl-d14	96 %	54-127

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00040	1	8260B	7/2/15 14:56	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 14:56	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-31 6-7
Prism Sample ID: 5070005-02
Prism Work Order: 5070005
Time Collected: 06/29/15 11:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00033	1	8260B	7/2/15 14:56	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0048	0.00043	1	8260B	7/2/15 14:56	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0048	0.00013	1	8260B	7/2/15 14:56	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00021	1	8260B	7/2/15 14:56	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00026	1	8260B	7/2/15 14:56	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00027	1	8260B	7/2/15 14:56	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0048	0.00061	1	8260B	7/2/15 14:56	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00036	1	8260B	7/2/15 14:56	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00037	1	8260B	7/2/15 14:56	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0048	0.00019	1	8260B	7/2/15 14:56	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 14:56	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0048	0.00029	1	8260B	7/2/15 14:56	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00030	1	8260B	7/2/15 14:56	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00036	1	8260B	7/2/15 14:56	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00032	1	8260B	7/2/15 14:56	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0048	0.00024	1	8260B	7/2/15 14:56	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00019	1	8260B	7/2/15 14:56	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 14:56	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	7/2/15 14:56	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	7/2/15 14:56	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 14:56	MSC	P5G0040
Acetone	BRL	mg/kg dry	0.048	0.0012	1	8260B	7/2/15 14:56	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0029	0.00028	1	8260B	7/2/15 14:56	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0048	0.00040	1	8260B	7/2/15 14:56	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0048	0.00026	1	8260B	7/2/15 14:56	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0048	0.00027	1	8260B	7/2/15 14:56	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0048	0.00055	1	8260B	7/2/15 14:56	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.0096	0.00059	1	8260B	7/2/15 14:56	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0048	0.00024	1	8260B	7/2/15 14:56	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0048	0.00026	1	8260B	7/2/15 14:56	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.0096	0.00040	1	8260B	7/2/15 14:56	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0048	0.00035	1	8260B	7/2/15 14:56	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0048	0.00032	1	8260B	7/2/15 14:56	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00021	1	8260B	7/2/15 14:56	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	7/2/15 14:56	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0048	0.00020	1	8260B	7/2/15 14:56	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0048	0.00022	1	8260B	7/2/15 14:56	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0048	0.00018	1	8260B	7/2/15 14:56	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0048	0.00020	1	8260B	7/2/15 14:56	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0048	0.00029	1	8260B	7/2/15 14:56	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.0096	0.00044	1	8260B	7/2/15 14:56	MSC	P5G0040
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.048	0.00044	1	8260B	7/2/15 14:56	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.096	0.00044	1	8260B	7/2/15 14:56	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-31 6-7
Prism Sample ID: 5070005-02
Prism Work Order: 5070005
Time Collected: 06/29/15 11:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.048	0.00041	1	8260B	7/2/15 14:56	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0048	0.00027	1	8260B	7/2/15 14:56	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0096	0.00015	1	8260B	7/2/15 14:56	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.0096	0.00015	1	8260B	7/2/15 14:56	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	7/2/15 14:56	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	7/2/15 14:56	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0048	0.00020	1	8260B	7/2/15 14:56	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 14:56	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	7/2/15 14:56	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	7/2/15 14:56	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 14:56	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0048	0.00028	1	8260B	7/2/15 14:56	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	7/2/15 14:56	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	7/2/15 14:56	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0048	0.00031	1	8260B	7/2/15 14:56	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0048	0.00031	1	8260B	7/2/15 14:56	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.024	0.00066	1	8260B	7/2/15 14:56	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 14:56	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.014	0.00090	1	8260B	7/2/15 14:56	MSC	P5G0040
Surrogate						Recovery		Control Limits	
4-Bromofluorobenzene						115 %		70-130	
Dibromofluoromethane						105 %		84-123	
Toluene-d8						98 %		76-129	

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.7	0.18	100	MADEP VPH	7/6/15 18:48	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	4.7	0.43	100	MADEP VPH	7/6/15 18:48	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	4.7	0.040	100	MADEP VPH	7/6/15 18:48	ANG	P5G0058
Surrogate						Recovery		Control Limits	
2,5-Dibromotoluene (PID)						131 %		70-130 SR	
2,5-Dibromotoluene (FID)						132 %		70-130 SR	

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-32 0-2
Prism Sample ID: 5070005-03
Prism Work Order: 5070005
Time Collected: 06/29/15 12:00
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	0.84	1	MADEP EPH	7/8/15 2:03	ZRC	P5G0052
C19-C36 Aliphatics	BRL	mg/kg dry	12	1.1	1	MADEP EPH	7/8/15 2:03	ZRC	P5G0052
C11-C22 Aromatics	BRL	mg/kg dry	12	3.0	1	MADEP EPH	7/8/15 2:03	ZRC	P5G0052
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	84 %		40-140
						o-Terphenyl	71 %		40-140
						2-Fluorobiphenyl	72 %		40-140
						2-Bromonaphthalene	76 %		40-140
General Chemistry Parameters									
% Solids	85.5	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.39	0.060	1	8270D	7/6/15 19:28	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.39	0.058	1	8270D	7/6/15 19:28	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.39	0.054	1	8270D	7/6/15 19:28	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.39	0.056	1	8270D	7/6/15 19:28	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.39	0.074	1	8270D	7/6/15 19:28	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.39	0.072	1	8270D	7/6/15 19:28	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.39	0.074	1	8270D	7/6/15 19:28	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.39	0.059	1	8270D	7/6/15 19:28	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.39	0.054	1	8270D	7/6/15 19:28	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.39	0.047	1	8270D	7/6/15 19:28	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 19:28	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.39	0.056	1	8270D	7/6/15 19:28	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 19:28	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.39	0.062	1	8270D	7/6/15 19:28	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.39	0.049	1	8270D	7/6/15 19:28	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.39	0.070	1	8270D	7/6/15 19:28	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.39	0.076	1	8270D	7/6/15 19:28	JMV	P5G0053
3/4-Methylphenol	0.15 J	mg/kg dry	0.39	0.048	1	8270D	7/6/15 19:28	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.39	0.058	1	8270D	7/6/15 19:28	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.39	0.066	1	8270D	7/6/15 19:28	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.39	0.054	1	8270D	7/6/15 19:28	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.39	0.046	1	8270D	7/6/15 19:28	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.39	0.050	1	8270D	7/6/15 19:28	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.39	0.059	1	8270D	7/6/15 19:28	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.39	0.052	1	8270D	7/6/15 19:28	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.39	0.056	1	8270D	7/6/15 19:28	JMV	P5G0053
Anthracene	0.19 J	mg/kg dry	0.39	0.062	1	8270D	7/6/15 19:28	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 19:28	JMV	P5G0053
Benzo(a)anthracene	0.75	mg/kg dry	0.39	0.050	1	8270D	7/6/15 19:28	JMV	P5G0053
Benzo(a)pyrene	0.85	mg/kg dry	0.39	0.042	1	8270D	7/6/15 19:28	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-32 0-2
Prism Sample ID: 5070005-03
Prism Work Order: 5070005
Time Collected: 06/29/15 12:00
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	1.1	mg/kg dry	0.39	0.045	1	8270D	7/6/15 19:28	JMV	P5G0053
Benzo(g,h,i)perylene	0.65	mg/kg dry	0.39	0.042	1	8270D	7/6/15 19:28	JMV	P5G0053
Benzo(k)fluoranthene	0.36 J	mg/kg dry	0.39	0.051	1	8270D	7/6/15 19:28	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.39	0.032	1	8270D	7/6/15 19:28	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 19:28	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.39	0.067	1	8270D	7/6/15 19:28	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.39	0.054	1	8270D	7/6/15 19:28	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.39	0.066	1	8270D	7/6/15 19:28	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.39	0.057	1	8270D	7/6/15 19:28	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 19:28	JMV	P5G0053
Chrysene	1.1	mg/kg dry	0.39	0.049	1	8270D	7/6/15 19:28	JMV	P5G0053
Dibenzo(a,h)anthracene	0.11 J	mg/kg dry	0.39	0.047	1	8270D	7/6/15 19:28	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.39	0.059	1	8270D	7/6/15 19:28	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.39	0.053	1	8270D	7/6/15 19:28	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 19:28	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 19:28	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.39	0.047	1	8270D	7/6/15 19:28	JMV	P5G0053
Fluoranthene	2.5	mg/kg dry	0.39	0.049	1	8270D	7/6/15 19:28	JMV	P5G0053
Fluorene	0.11 J	mg/kg dry	0.39	0.055	1	8270D	7/6/15 19:28	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.39	0.061	1	8270D	7/6/15 19:28	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.39	0.069	1	8270D	7/6/15 19:28	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.39	0.069	1	8270D	7/6/15 19:28	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.39	0.065	1	8270D	7/6/15 19:28	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	0.55	mg/kg dry	0.39	0.044	1	8270D	7/6/15 19:28	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.39	0.052	1	8270D	7/6/15 19:28	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.39	0.062	1	8270D	7/6/15 19:28	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 19:28	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.39	0.061	1	8270D	7/6/15 19:28	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.39	0.059	1	8270D	7/6/15 19:28	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.39	0.046	1	8270D	7/6/15 19:28	JMV	P5G0053
Phenanthrene	2.3	mg/kg dry	0.39	0.050	1	8270D	7/6/15 19:28	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.39	0.057	1	8270D	7/6/15 19:28	JMV	P5G0053
Pyrene	2.3	mg/kg dry	0.39	0.051	1	8270D	7/6/15 19:28	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	109 %	39-132
2-Fluorobiphenyl	103 %	44-115
2-Fluorophenol	102 %	35-115
Nitrobenzene-d5	95 %	37-122
Phenol-d5	102 %	34-121
Terphenyl-d14	89 %	54-127

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00042	1	8260B	7/2/15 15:27	MSC	P5G0040
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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-32 0-2
Prism Sample ID: 5070005-03
Prism Work Order: 5070005
Time Collected: 06/29/15 12:00
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 15:27	MSC	P5G0040
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	7/2/15 15:27	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0052	0.00046	1	8260B	7/2/15 15:27	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0052	0.00014	1	8260B	7/2/15 15:27	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00023	1	8260B	7/2/15 15:27	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00028	1	8260B	7/2/15 15:27	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00029	1	8260B	7/2/15 15:27	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0052	0.00066	1	8260B	7/2/15 15:27	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00038	1	8260B	7/2/15 15:27	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00039	1	8260B	7/2/15 15:27	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0052	0.00021	1	8260B	7/2/15 15:27	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00024	1	8260B	7/2/15 15:27	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 15:27	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00032	1	8260B	7/2/15 15:27	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00039	1	8260B	7/2/15 15:27	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00034	1	8260B	7/2/15 15:27	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0052	0.00026	1	8260B	7/2/15 15:27	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00020	1	8260B	7/2/15 15:27	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 15:27	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	7/2/15 15:27	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 15:27	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 15:27	MSC	P5G0040
Acetone	0.078	mg/kg dry	0.052	0.0013	1	8260B	7/2/15 15:27	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0031	0.00030	1	8260B	7/2/15 15:27	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0052	0.00043	1	8260B	7/2/15 15:27	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0052	0.00028	1	8260B	7/2/15 15:27	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0052	0.00029	1	8260B	7/2/15 15:27	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0052	0.00059	1	8260B	7/2/15 15:27	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.010	0.00064	1	8260B	7/2/15 15:27	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0052	0.00026	1	8260B	7/2/15 15:27	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	7/2/15 15:27	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.010	0.00043	1	8260B	7/2/15 15:27	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0052	0.00037	1	8260B	7/2/15 15:27	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	7/2/15 15:27	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00022	1	8260B	7/2/15 15:27	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00017	1	8260B	7/2/15 15:27	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0052	0.00021	1	8260B	7/2/15 15:27	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0052	0.00023	1	8260B	7/2/15 15:27	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0052	0.00020	1	8260B	7/2/15 15:27	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0052	0.00021	1	8260B	7/2/15 15:27	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 15:27	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00048	1	8260B	7/2/15 15:27	MSC	P5G0040
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.052	0.00047	1	8260B	7/2/15 15:27	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-32 0-2
Prism Sample ID: 5070005-03
Prism Work Order: 5070005
Time Collected: 06/29/15 12:00
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00047	1	8260B	7/2/15 15:27	MSC	P5G0040
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.052	0.00044	1	8260B	7/2/15 15:27	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0052	0.00029	1	8260B	7/2/15 15:27	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00017	1	8260B	7/2/15 15:27	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	8260B	7/2/15 15:27	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0052	0.00026	1	8260B	7/2/15 15:27	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 15:27	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0052	0.00021	1	8260B	7/2/15 15:27	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 15:27	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 15:27	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0052	0.00017	1	8260B	7/2/15 15:27	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 15:27	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0052	0.00030	1	8260B	7/2/15 15:27	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 15:27	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	7/2/15 15:27	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0052	0.00033	1	8260B	7/2/15 15:27	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0052	0.00033	1	8260B	7/2/15 15:27	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.026	0.00071	1	8260B	7/2/15 15:27	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 15:27	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.015	0.00097	1	8260B	7/2/15 15:27	MSC	P5G0040
Surrogate									
4-Bromofluorobenzene									
126 %									
Dibromofluoromethane									
109 %									
Toluene-d8									
103 %									
76-129									

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.6	0.21	100	MADEP VPH	7/6/15 19:20	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	5.6	0.51	100	MADEP VPH	7/6/15 19:20	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	5.6	0.048	100	MADEP VPH	7/6/15 19:20	ANG	P5G0058
Surrogate									
2,5-Dibromotoluene (PID)									
125 %									
2,5-Dibromotoluene (FID)									
128 %									
70-130									
70-130									

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness
 Sample Matrix: Solid

Client Sample ID: SB-35 1
 Prism Sample ID: 5070005-04
 Prism Work Order: 5070005
 Time Collected: 06/29/15 13:15
 Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction by EPA 1311									
TCLP Extraction	Complete	N/A		1	*1311	7/7/15 7:00	JAB	P5G0069	
TCLP Extraction	Complete	N/A		1	*1311	7/7/15 7:00	JAB	P5G0070	
TCLP Extraction	Complete	N/A		1	*1311 ZHE	7/7/15 8:30	ANG	P5G0073	
TCLP Metals									
Mercury	BRL	mg/L	0.010	0.000012	1	*7470A	7/7/15 14:32	JAB	P5G0082
Arsenic	BRL	mg/L	0.050	0.0035	1	*6010C	7/7/15 16:38	BGM	P5G0083
Barium	BRL	mg/L	5.0	0.0035	1	*6010C	7/7/15 16:38	BGM	P5G0083
Cadmium	BRL	mg/L	0.025	0.00050	1	*6010C	7/7/15 16:38	BGM	P5G0083
Chromium	BRL	mg/L	0.25	0.0030	1	*6010C	7/7/15 16:38	BGM	P5G0083
Lead	BRL	mg/L	0.050	0.0065	1	*6010C	7/7/15 16:38	BGM	P5G0083
Selenium	BRL	mg/L	0.10	0.016	1	*6010C	7/7/15 16:38	BGM	P5G0083
Silver	BRL	mg/L	0.25	0.0010	1	*6010C	7/7/15 16:38	BGM	P5G0083
TCLP Organochlorine Pesticides by GC/ECD									
Chlordane	BRL	mg/L	0.0025	0.00034	1	*8081B	7/7/15 17:52	JMC	P5G0087
Dieldrin	BRL	mg/L	0.00050	0.000022	1	*8081B	7/7/15 17:52	JMC	P5G0087
Endrin	BRL	mg/L	0.00050	0.000020	1	*8081B	7/7/15 17:52	JMC	P5G0087
gamma-BHC	BRL	mg/L	0.00050	0.000013	1	*8081B	7/7/15 17:52	JMC	P5G0087
Heptachlor	BRL CCV	mg/L	0.00050	0.000015	1	*8081B	7/7/15 17:52	JMC	P5G0087
Heptachlor Epoxide	BRL	mg/L	0.00050	0.000018	1	*8081B	7/7/15 17:52	JMC	P5G0087
Methoxychlor	BRL CCV	mg/L	0.00050	0.000033	1	*8081B	7/7/15 17:52	JMC	P5G0087
Toxaphene	BRL	mg/L	0.025	0.00016	1	*8081B	7/7/15 17:52	JMC	P5G0087
Surrogate									
Decachlorobiphenyl									
85 %									
Tetrachloro-m-xylene									
73 %									
TCLP Semivolatile Organic Compounds by GC/MS									
2,4,5-Trichlorophenol	BRL	mg/L	0.25	0.0023	1	*8270D	7/7/15 18:07	JMV	P5G0086
2,4,6-Trichlorophenol	BRL	mg/L	0.10	0.0026	1	*8270D	7/7/15 18:07	JMV	P5G0086
2,4-Dinitrotoluene	BRL	mg/L	0.050	0.0019	1	*8270D	7/7/15 18:07	JMV	P5G0086
2-Methylphenol	BRL	mg/L	0.050	0.0021	1	*8270D	7/7/15 18:07	JMV	P5G0086
3/4-Methylphenol	BRL	mg/L	0.050	0.0019	1	*8270D	7/7/15 18:07	JMV	P5G0086
Hexachlorobenzene	BRL	mg/L	0.050	0.0019	1	*8270D	7/7/15 18:07	JMV	P5G0086
Hexachlorobutadiene	BRL	mg/L	0.050	0.0026	1	*8270D	7/7/15 18:07	JMV	P5G0086
Hexachloroethane	BRL	mg/L	0.050	0.0025	1	*8270D	7/7/15 18:07	JMV	P5G0086
Nitrobenzene	BRL	mg/L	0.050	0.0024	1	*8270D	7/7/15 18:07	JMV	P5G0086
Pentachlorophenol	BRL	mg/L	0.25	0.0025	1	*8270D	7/7/15 18:07	JMV	P5G0086
Pyridine	BRL	mg/L	0.25	0.0021	1	*8270D	7/7/15 18:07	JMV	P5G0086
Surrogate									
2,4,6-Tribromophenol									
117 %									
55-96									
2-Fluorobiphenyl									
107 %									
2-Fluorophenol									
69 %									
Nitrobenzene-d5									
110 %									
53-99									
SR									

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-35 1
Prism Sample ID: 5070005-04
Prism Work Order: 5070005
Time Collected: 06/29/15 13:15
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
				Phenol-d5					
				Terphenyl-d14					
TCLP Volatile Organic Compounds by GC/MS									
1,1-Dichloroethylene	BRL	mg/L	0.035	0.00083	1	*8260B	7/7/15 18:39	MSC	P5G0096
1,2-Dichloroethane	BRL	mg/L	0.025	0.00066	1	*8260B	7/7/15 18:39	MSC	P5G0096
1,4-Dichlorobenzene	BRL	mg/L	0.38	0.00050	1	*8260B	7/7/15 18:39	MSC	P5G0096
Benzene	BRL	mg/L	0.025	0.00048	1	*8260B	7/7/15 18:39	MSC	P5G0096
Carbon Tetrachloride	BRL	mg/L	0.025	0.0011	1	*8260B	7/7/15 18:39	MSC	P5G0096
Chlorobenzene	BRL	mg/L	5.0	0.00062	1	*8260B	7/7/15 18:39	MSC	P5G0096
Chloroform	BRL	mg/L	0.30	0.00076	1	*8260B	7/7/15 18:39	MSC	P5G0096
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/L	10	0.0024	1	*8260B	7/7/15 18:39	MSC	P5G0096
Tetrachloroethylene	BRL	mg/L	0.035	0.00098	1	*8260B	7/7/15 18:39	MSC	P5G0096
Trichloroethylene	BRL	mg/L	0.025	0.00079	1	*8260B	7/7/15 18:39	MSC	P5G0096
Vinyl chloride	BRL	mg/L	0.020	0.00097	1	*8260B	7/7/15 18:39	MSC	P5G0096
				Surrogate					
				Recovery					
				Control Limits					
				4-Bromofluorobenzene					
				91 %					
				Dibromofluoromethane					
				103 %					
				Toluene-d8					
				97 %					

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-34 0-2
Prism Sample ID: 5070005-05
Prism Work Order: 5070005
Time Collected: 06/29/15 15:05
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	2.3 J	mg/kg dry	12	0.84	1	MADEP EPH	7/8/15 2:39	ZRC	P5G0052
C19-C36 Aliphatics	8.6 J	mg/kg dry	12	1.1	1	MADEP EPH	7/8/15 2:39	ZRC	P5G0052
C11-C22 Aromatics	12	mg/kg dry	12	3.0	1	MADEP EPH	7/8/15 2:39	ZRC	P5G0052
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	69 %		40-140
						o-Terphenyl	61 %		40-140
						2-Fluorobiphenyl	61 %		40-140
						2-Bromonaphthalene	66 %		40-140
General Chemistry Parameters									
% Solids	85.9	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.38	0.060	1	8270D	7/6/15 19:49	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.38	0.058	1	8270D	7/6/15 19:49	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.38	0.054	1	8270D	7/6/15 19:49	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.38	0.056	1	8270D	7/6/15 19:49	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.38	0.074	1	8270D	7/6/15 19:49	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.38	0.072	1	8270D	7/6/15 19:49	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.38	0.074	1	8270D	7/6/15 19:49	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.38	0.059	1	8270D	7/6/15 19:49	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.38	0.054	1	8270D	7/6/15 19:49	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.38	0.047	1	8270D	7/6/15 19:49	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.38	0.051	1	8270D	7/6/15 19:49	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.38	0.056	1	8270D	7/6/15 19:49	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.38	0.054	1	8270D	7/6/15 19:49	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.38	0.061	1	8270D	7/6/15 19:49	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.38	0.049	1	8270D	7/6/15 19:49	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.38	0.070	1	8270D	7/6/15 19:49	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.38	0.076	1	8270D	7/6/15 19:49	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.38	0.047	1	8270D	7/6/15 19:49	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.38	0.058	1	8270D	7/6/15 19:49	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.38	0.066	1	8270D	7/6/15 19:49	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.38	0.054	1	8270D	7/6/15 19:49	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.38	0.046	1	8270D	7/6/15 19:49	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.38	0.050	1	8270D	7/6/15 19:49	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.38	0.059	1	8270D	7/6/15 19:49	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.38	0.052	1	8270D	7/6/15 19:49	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.38	0.056	1	8270D	7/6/15 19:49	JMV	P5G0053
Anthracene	BRL	mg/kg dry	0.38	0.062	1	8270D	7/6/15 19:49	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.38	0.051	1	8270D	7/6/15 19:49	JMV	P5G0053
Benzo(a)anthracene	BRL	mg/kg dry	0.38	0.050	1	8270D	7/6/15 19:49	JMV	P5G0053
Benzo(a)pyrene	BRL	mg/kg dry	0.38	0.042	1	8270D	7/6/15 19:49	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-34 0-2
Prism Sample ID: 5070005-05
Prism Work Order: 5070005
Time Collected: 06/29/15 15:05
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.38	0.045	1	8270D	7/6/15 19:49	JMV	P5G0053
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.38	0.042	1	8270D	7/6/15 19:49	JMV	P5G0053
Benzo(k)fluoranthene	BRL	mg/kg dry	0.38	0.050	1	8270D	7/6/15 19:49	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.38	0.032	1	8270D	7/6/15 19:49	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.38	0.051	1	8270D	7/6/15 19:49	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.38	0.067	1	8270D	7/6/15 19:49	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.38	0.054	1	8270D	7/6/15 19:49	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.38	0.066	1	8270D	7/6/15 19:49	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.38	0.057	1	8270D	7/6/15 19:49	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.38	0.055	1	8270D	7/6/15 19:49	JMV	P5G0053
Chrysene	BRL	mg/kg dry	0.38	0.048	1	8270D	7/6/15 19:49	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.38	0.047	1	8270D	7/6/15 19:49	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.38	0.058	1	8270D	7/6/15 19:49	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.38	0.053	1	8270D	7/6/15 19:49	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.38	0.051	1	8270D	7/6/15 19:49	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.38	0.055	1	8270D	7/6/15 19:49	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.38	0.047	1	8270D	7/6/15 19:49	JMV	P5G0053
Fluoranthene	BRL	mg/kg dry	0.38	0.049	1	8270D	7/6/15 19:49	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.38	0.055	1	8270D	7/6/15 19:49	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.38	0.061	1	8270D	7/6/15 19:49	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.38	0.069	1	8270D	7/6/15 19:49	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.38	0.069	1	8270D	7/6/15 19:49	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.38	0.064	1	8270D	7/6/15 19:49	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.38	0.044	1	8270D	7/6/15 19:49	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.38	0.052	1	8270D	7/6/15 19:49	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.38	0.062	1	8270D	7/6/15 19:49	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.38	0.055	1	8270D	7/6/15 19:49	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.38	0.061	1	8270D	7/6/15 19:49	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.38	0.058	1	8270D	7/6/15 19:49	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.38	0.045	1	8270D	7/6/15 19:49	JMV	P5G0053
Phenanthrene	BRL	mg/kg dry	0.38	0.050	1	8270D	7/6/15 19:49	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.38	0.057	1	8270D	7/6/15 19:49	JMV	P5G0053
Pyrene	BRL	mg/kg dry	0.38	0.051	1	8270D	7/6/15 19:49	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	121 %	39-132
2-Fluorobiphenyl	112 %	44-115
2-Fluorophenol	110 %	35-115
Nitrobenzene-d5	104 %	37-122
Phenol-d5	110 %	34-121
Terphenyl-d14	99 %	54-127

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0034	0.00028	1	8260B	7/2/15 15:58	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0034	0.00017	1	8260B	7/2/15 15:58	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-34 0-2
Prism Sample ID: 5070005-05
Prism Work Order: 5070005
Time Collected: 06/29/15 15:05
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0034	0.00023	1	8260B	7/2/15 15:58	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0034	0.00030	1	8260B	7/2/15 15:58	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0034	0.000095	1	8260B	7/2/15 15:58	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0034	0.00015	1	8260B	7/2/15 15:58	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0034	0.00019	1	8260B	7/2/15 15:58	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0034	0.00019	1	8260B	7/2/15 15:58	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0034	0.00044	1	8260B	7/2/15 15:58	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0034	0.00025	1	8260B	7/2/15 15:58	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0034	0.00026	1	8260B	7/2/15 15:58	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0034	0.00014	1	8260B	7/2/15 15:58	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0034	0.00016	1	8260B	7/2/15 15:58	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0034	0.00020	1	8260B	7/2/15 15:58	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0034	0.00021	1	8260B	7/2/15 15:58	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0034	0.00026	1	8260B	7/2/15 15:58	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0034	0.00023	1	8260B	7/2/15 15:58	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0034	0.00017	1	8260B	7/2/15 15:58	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0034	0.00013	1	8260B	7/2/15 15:58	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0034	0.00016	1	8260B	7/2/15 15:58	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0034	0.00018	1	8260B	7/2/15 15:58	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0034	0.00020	1	8260B	7/2/15 15:58	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0034	0.00016	1	8260B	7/2/15 15:58	MSC	P5G0040
Acetone	BRL	mg/kg dry	0.034	0.00083	1	8260B	7/2/15 15:58	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0021	0.00020	1	8260B	7/2/15 15:58	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0034	0.00029	1	8260B	7/2/15 15:58	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0034	0.00019	1	8260B	7/2/15 15:58	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0034	0.00019	1	8260B	7/2/15 15:58	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0034	0.00039	1	8260B	7/2/15 15:58	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.0068	0.00042	1	8260B	7/2/15 15:58	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0034	0.00017	1	8260B	7/2/15 15:58	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0034	0.00018	1	8260B	7/2/15 15:58	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.0068	0.00029	1	8260B	7/2/15 15:58	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0034	0.00025	1	8260B	7/2/15 15:58	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0034	0.00023	1	8260B	7/2/15 15:58	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0034	0.00015	1	8260B	7/2/15 15:58	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0034	0.00011	1	8260B	7/2/15 15:58	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0034	0.00014	1	8260B	7/2/15 15:58	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0034	0.00016	1	8260B	7/2/15 15:58	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0034	0.00013	1	8260B	7/2/15 15:58	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0034	0.00014	1	8260B	7/2/15 15:58	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0034	0.00020	1	8260B	7/2/15 15:58	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.0068	0.00032	1	8260B	7/2/15 15:58	MSC	P5G0040
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.034	0.00031	1	8260B	7/2/15 15:58	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.068	0.00031	1	8260B	7/2/15 15:58	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-34 0-2
Prism Sample ID: 5070005-05
Prism Work Order: 5070005
Time Collected: 06/29/15 15:05
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.034	0.00029	1	8260B	7/2/15 15:58	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0034	0.00019	1	8260B	7/2/15 15:58	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0068	0.00011	1	8260B	7/2/15 15:58	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.0068	0.00011	1	8260B	7/2/15 15:58	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0034	0.00017	1	8260B	7/2/15 15:58	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0034	0.00020	1	8260B	7/2/15 15:58	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0034	0.00014	1	8260B	7/2/15 15:58	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0034	0.00017	1	8260B	7/2/15 15:58	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0034	0.00021	1	8260B	7/2/15 15:58	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0034	0.00012	1	8260B	7/2/15 15:58	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0034	0.00016	1	8260B	7/2/15 15:58	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0034	0.00020	1	8260B	7/2/15 15:58	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0034	0.00020	1	8260B	7/2/15 15:58	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0034	0.00018	1	8260B	7/2/15 15:58	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0034	0.00022	1	8260B	7/2/15 15:58	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0034	0.00022	1	8260B	7/2/15 15:58	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.017	0.00047	1	8260B	7/2/15 15:58	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0034	0.00017	1	8260B	7/2/15 15:58	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.010	0.00064	1	8260B	7/2/15 15:58	MSC	P5G0040
Surrogate						Recovery		Control Limits	
4-Bromofluorobenzene						112 %		70-130	
Dibromofluoromethane						108 %		84-123	
Toluene-d8						96 %		76-129	

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.7	0.18	100	MADEP VPH	7/6/15 19:52	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	4.7	0.43	100	MADEP VPH	7/6/15 19:52	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	4.7	0.041	100	MADEP VPH	7/6/15 19:52	ANG	P5G0058
Surrogate						Recovery		Control Limits	
2,5-Dibromotoluene (PID)						118 %		70-130	
2,5-Dibromotoluene (FID)						119 %		70-130	

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-42 1
Prism Sample ID: 5070005-06
Prism Work Order: 5070005
Time Collected: 06/29/15 18:15
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
TCLP Extraction by EPA 1311									
TCLP Extraction	Complete	N/A		1	*1311	7/7/15 7:00	JAB	P5G0069	
TCLP Extraction	Complete	N/A		1	*1311	7/7/15 7:00	JAB	P5G0070	
TCLP Extraction	Complete	N/A		1	*1311 ZHE	7/7/15 8:30	ANG	P5G0073	
TCLP Metals									
Mercury	BRL	mg/L	0.010	0.000012	1	*7470A	7/7/15 14:44	BGM	P5G0082
Arsenic	BRL	mg/L	0.050	0.0035	1	*6010C	7/7/15 16:46	BGM	P5G0083
Barium	BRL	mg/L	5.0	0.0035	1	*6010C	7/7/15 16:46	BGM	P5G0083
Cadmium	BRL	mg/L	0.025	0.00050	1	*6010C	7/7/15 16:46	BGM	P5G0083
Chromium	BRL	mg/L	0.25	0.0030	1	*6010C	7/7/15 16:46	BGM	P5G0083
Lead	BRL	mg/L	0.050	0.0065	1	*6010C	7/7/15 16:46	BGM	P5G0083
Selenium	BRL	mg/L	0.10	0.016	1	*6010C	7/7/15 16:46	BGM	P5G0083
Silver	BRL	mg/L	0.25	0.0010	1	*6010C	7/7/15 16:46	BGM	P5G0083
TCLP Organochlorine Pesticides by GC/ECD									
Chlordane	BRL	mg/L	0.0025	0.00034	1	*8081B	7/7/15 18:04	JMC	P5G0087
Dieldrin	BRL	mg/L	0.00050	0.000022	1	*8081B	7/7/15 18:04	JMC	P5G0087
Endrin	BRL	mg/L	0.00050	0.000020	1	*8081B	7/7/15 18:04	JMC	P5G0087
gamma-BHC	BRL	mg/L	0.00050	0.000013	1	*8081B	7/7/15 18:04	JMC	P5G0087
Heptachlor	BRL CCV	mg/L	0.00050	0.000015	1	*8081B	7/7/15 18:04	JMC	P5G0087
Heptachlor Epoxide	BRL	mg/L	0.00050	0.000018	1	*8081B	7/7/15 18:04	JMC	P5G0087
Methoxychlor	BRL CCV	mg/L	0.00050	0.000033	1	*8081B	7/7/15 18:04	JMC	P5G0087
Toxaphene	BRL	mg/L	0.025	0.00016	1	*8081B	7/7/15 18:04	JMC	P5G0087
						Surrogate	Recovery	Control Limits	
						Decachlorobiphenyl	86 %	13-186	
						Tetrachloro-m-xylene	79 %	40-134	
TCLP Semivolatile Organic Compounds by GC/MS									
2,4,5-Trichlorophenol	BRL	mg/L	0.25	0.0023	1	*8270D	7/7/15 18:28	JMV	P5G0086
2,4,6-Trichlorophenol	BRL	mg/L	0.10	0.0026	1	*8270D	7/7/15 18:28	JMV	P5G0086
2,4-Dinitrotoluene	BRL	mg/L	0.050	0.0019	1	*8270D	7/7/15 18:28	JMV	P5G0086
2-Methylphenol	BRL	mg/L	0.050	0.0021	1	*8270D	7/7/15 18:28	JMV	P5G0086
3/4-Methylphenol	BRL	mg/L	0.050	0.0019	1	*8270D	7/7/15 18:28	JMV	P5G0086
Hexachlorobenzene	BRL	mg/L	0.050	0.0019	1	*8270D	7/7/15 18:28	JMV	P5G0086
Hexachlorobutadiene	BRL	mg/L	0.050	0.0026	1	*8270D	7/7/15 18:28	JMV	P5G0086
Hexachloroethane	BRL	mg/L	0.050	0.0025	1	*8270D	7/7/15 18:28	JMV	P5G0086
Nitrobenzene	BRL	mg/L	0.050	0.0024	1	*8270D	7/7/15 18:28	JMV	P5G0086
Pentachlorophenol	BRL	mg/L	0.25	0.0025	1	*8270D	7/7/15 18:28	JMV	P5G0086
Pyridine	BRL	mg/L	0.25	0.0021	1	*8270D	7/7/15 18:28	JMV	P5G0086
						Surrogate	Recovery	Control Limits	
						2,4,6-Tribromophenol	101 %	49-109	
						2-Fluorobiphenyl	91 %	55-96	
						2-Fluorophenol	59 %	27-74	
						Nitrobenzene-d5	91 %	53-99	

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-42 1
Prism Sample ID: 5070005-06
Prism Work Order: 5070005
Time Collected: 06/29/15 18:15
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
				Phenol-d5					
				Terphenyl-d14					
TCLP Volatile Organic Compounds by GC/MS									
1,1-Dichloroethylene	BRL	mg/L	0.035	0.00083	1	*8260B	7/7/15 19:13	MSC	P5G0096
1,2-Dichloroethane	BRL	mg/L	0.025	0.00066	1	*8260B	7/7/15 19:13	MSC	P5G0096
1,4-Dichlorobenzene	BRL	mg/L	0.38	0.00050	1	*8260B	7/7/15 19:13	MSC	P5G0096
Benzene	BRL	mg/L	0.025	0.00048	1	*8260B	7/7/15 19:13	MSC	P5G0096
Carbon Tetrachloride	BRL	mg/L	0.025	0.0011	1	*8260B	7/7/15 19:13	MSC	P5G0096
Chlorobenzene	BRL	mg/L	5.0	0.00062	1	*8260B	7/7/15 19:13	MSC	P5G0096
Chloroform	BRL	mg/L	0.30	0.00076	1	*8260B	7/7/15 19:13	MSC	P5G0096
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/L	10	0.0024	1	*8260B	7/7/15 19:13	MSC	P5G0096
Tetrachloroethylene	BRL	mg/L	0.035	0.00098	1	*8260B	7/7/15 19:13	MSC	P5G0096
Trichloroethylene	BRL	mg/L	0.025	0.00079	1	*8260B	7/7/15 19:13	MSC	P5G0096
Vinyl chloride	BRL	mg/L	0.020	0.00097	1	*8260B	7/7/15 19:13	MSC	P5G0096
				Surrogate					
				Recovery					
				Control Limits					
				4-Bromofluorobenzene					
				90 %					
				Dibromofluoromethane					
				104 %					
				Toluene-d8					
				98 %					
				77-123					

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-36 0-2
Prism Sample ID: 5070005-07
Prism Work Order: 5070005
Time Collected: 06/29/15 18:25
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	2.0 J	mg/kg dry	11	0.81	1	MADEP EPH	7/8/15 3:16	ZRC	P5G0052
C19-C36 Aliphatics	3.5 J	mg/kg dry	11	1.1	1	MADEP EPH	7/8/15 3:16	ZRC	P5G0052
C11-C22 Aromatics	12	mg/kg dry	11	2.9	1	MADEP EPH	7/8/15 3:16	ZRC	P5G0052
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	60 %		40-140
						o-Terphenyl	64 %		40-140
						2-Fluorobiphenyl	65 %		40-140
						2-Bromonaphthalene	71 %		40-140
General Chemistry Parameters									
% Solids	89.2	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.37	0.058	1	8270D	7/6/15 20:10	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.37	0.056	1	8270D	7/6/15 20:10	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.37	0.052	1	8270D	7/6/15 20:10	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.37	0.054	1	8270D	7/6/15 20:10	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.37	0.071	1	8270D	7/6/15 20:10	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.37	0.069	1	8270D	7/6/15 20:10	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.37	0.071	1	8270D	7/6/15 20:10	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.37	0.057	1	8270D	7/6/15 20:10	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.37	0.052	1	8270D	7/6/15 20:10	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.37	0.045	1	8270D	7/6/15 20:10	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.37	0.049	1	8270D	7/6/15 20:10	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.37	0.054	1	8270D	7/6/15 20:10	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.37	0.052	1	8270D	7/6/15 20:10	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.37	0.059	1	8270D	7/6/15 20:10	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.37	0.047	1	8270D	7/6/15 20:10	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.37	0.067	1	8270D	7/6/15 20:10	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.37	0.073	1	8270D	7/6/15 20:10	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.37	0.046	1	8270D	7/6/15 20:10	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.37	0.056	1	8270D	7/6/15 20:10	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.37	0.063	1	8270D	7/6/15 20:10	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.37	0.052	1	8270D	7/6/15 20:10	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.37	0.044	1	8270D	7/6/15 20:10	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.37	0.048	1	8270D	7/6/15 20:10	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.37	0.057	1	8270D	7/6/15 20:10	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.37	0.050	1	8270D	7/6/15 20:10	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.37	0.054	1	8270D	7/6/15 20:10	JMV	P5G0053
Anthracene	BRL	mg/kg dry	0.37	0.060	1	8270D	7/6/15 20:10	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.37	0.049	1	8270D	7/6/15 20:10	JMV	P5G0053
Benzo(a)anthracene	0.27 J	mg/kg dry	0.37	0.048	1	8270D	7/6/15 20:10	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-36 0-2
Prism Sample ID: 5070005-07
Prism Work Order: 5070005
Time Collected: 06/29/15 18:25
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)pyrene	0.25 J	mg/kg dry	0.37	0.040	1	8270D	7/6/15 20:10	JMV	P5G0053
Benzo(b)fluoranthene	0.38	mg/kg dry	0.37	0.043	1	8270D	7/6/15 20:10	JMV	P5G0053
Benzo(g,h,i)perylene	0.16 J	mg/kg dry	0.37	0.041	1	8270D	7/6/15 20:10	JMV	P5G0053
Benzo(k)fluoranthene	0.11 J	mg/kg dry	0.37	0.048	1	8270D	7/6/15 20:10	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.37	0.031	1	8270D	7/6/15 20:10	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.37	0.049	1	8270D	7/6/15 20:10	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.37	0.064	1	8270D	7/6/15 20:10	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.37	0.052	1	8270D	7/6/15 20:10	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.37	0.063	1	8270D	7/6/15 20:10	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.37	0.055	1	8270D	7/6/15 20:10	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.37	0.053	1	8270D	7/6/15 20:10	JMV	P5G0053
Chrysene	0.29 J	mg/kg dry	0.37	0.047	1	8270D	7/6/15 20:10	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.37	0.045	1	8270D	7/6/15 20:10	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.37	0.056	1	8270D	7/6/15 20:10	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.37	0.051	1	8270D	7/6/15 20:10	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.37	0.049	1	8270D	7/6/15 20:10	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.37	0.053	1	8270D	7/6/15 20:10	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.37	0.045	1	8270D	7/6/15 20:10	JMV	P5G0053
Fluoranthene	0.54	mg/kg dry	0.37	0.047	1	8270D	7/6/15 20:10	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.37	0.053	1	8270D	7/6/15 20:10	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.37	0.059	1	8270D	7/6/15 20:10	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.37	0.066	1	8270D	7/6/15 20:10	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.37	0.066	1	8270D	7/6/15 20:10	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.37	0.062	1	8270D	7/6/15 20:10	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	0.17 J	mg/kg dry	0.37	0.042	1	8270D	7/6/15 20:10	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.37	0.050	1	8270D	7/6/15 20:10	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.37	0.059	1	8270D	7/6/15 20:10	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.37	0.053	1	8270D	7/6/15 20:10	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.37	0.058	1	8270D	7/6/15 20:10	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.37	0.056	1	8270D	7/6/15 20:10	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.37	0.044	1	8270D	7/6/15 20:10	JMV	P5G0053
Phenanthrene	0.25 J	mg/kg dry	0.37	0.048	1	8270D	7/6/15 20:10	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.37	0.055	1	8270D	7/6/15 20:10	JMV	P5G0053
Pyrene	0.40	mg/kg dry	0.37	0.049	1	8270D	7/6/15 20:10	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	107 %	39-132
2-Fluorobiphenyl	115 %	44-115
2-Fluorophenol	98 %	35-115
Nitrobenzene-d5	102 %	37-122
Phenol-d5	104 %	34-121
Terphenyl-d14	101 %	54-127

Volatile Organic Compounds by GC/MS

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-36 0-2
Prism Sample ID: 5070005-07
Prism Work Order: 5070005
Time Collected: 06/29/15 18:25
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0043	0.00036	1	8260B	7/2/15 16:30	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0043	0.00021	1	8260B	7/2/15 16:30	MSC	P5G0040
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0043	0.00029	1	8260B	7/2/15 16:30	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0043	0.00038	1	8260B	7/2/15 16:30	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0043	0.00012	1	8260B	7/2/15 16:30	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00019	1	8260B	7/2/15 16:30	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00024	1	8260B	7/2/15 16:30	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0043	0.00025	1	8260B	7/2/15 16:30	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0043	0.00055	1	8260B	7/2/15 16:30	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0043	0.00032	1	8260B	7/2/15 16:30	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0043	0.00033	1	8260B	7/2/15 16:30	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0043	0.00017	1	8260B	7/2/15 16:30	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0043	0.00020	1	8260B	7/2/15 16:30	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0043	0.00026	1	8260B	7/2/15 16:30	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0043	0.00027	1	8260B	7/2/15 16:30	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0043	0.00033	1	8260B	7/2/15 16:30	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0043	0.00029	1	8260B	7/2/15 16:30	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0043	0.00022	1	8260B	7/2/15 16:30	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0043	0.00017	1	8260B	7/2/15 16:30	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0043	0.00021	1	8260B	7/2/15 16:30	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0043	0.00022	1	8260B	7/2/15 16:30	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	7/2/15 16:30	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0043	0.00021	1	8260B	7/2/15 16:30	MSC	P5G0040
Acetone	0.092	mg/kg dry	0.043	0.0011	1	8260B	7/2/15 16:30	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0026	0.00025	1	8260B	7/2/15 16:30	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0043	0.00036	1	8260B	7/2/15 16:30	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0043	0.00024	1	8260B	7/2/15 16:30	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0043	0.00024	1	8260B	7/2/15 16:30	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0043	0.00049	1	8260B	7/2/15 16:30	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.0087	0.00053	1	8260B	7/2/15 16:30	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0043	0.00022	1	8260B	7/2/15 16:30	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0043	0.00023	1	8260B	7/2/15 16:30	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.0087	0.00036	1	8260B	7/2/15 16:30	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0043	0.00031	1	8260B	7/2/15 16:30	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0043	0.00029	1	8260B	7/2/15 16:30	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00018	1	8260B	7/2/15 16:30	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00015	1	8260B	7/2/15 16:30	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0043	0.00018	1	8260B	7/2/15 16:30	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0043	0.00020	1	8260B	7/2/15 16:30	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0043	0.00017	1	8260B	7/2/15 16:30	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0043	0.00018	1	8260B	7/2/15 16:30	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0043	0.00026	1	8260B	7/2/15 16:30	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.0087	0.00040	1	8260B	7/2/15 16:30	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-36 0-2
Prism Sample ID: 5070005-07
Prism Work Order: 5070005
Time Collected: 06/29/15 18:25
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.043	0.00039	1	8260B	7/2/15 16:30	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.087	0.00039	1	8260B	7/2/15 16:30	MSC	P5G0040
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.043	0.00037	1	8260B	7/2/15 16:30	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0043	0.00024	1	8260B	7/2/15 16:30	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0087	0.00014	1	8260B	7/2/15 16:30	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.0087	0.00014	1	8260B	7/2/15 16:30	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0043	0.00022	1	8260B	7/2/15 16:30	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	7/2/15 16:30	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0043	0.00018	1	8260B	7/2/15 16:30	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0043	0.00021	1	8260B	7/2/15 16:30	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	7/2/15 16:30	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0043	0.00015	1	8260B	7/2/15 16:30	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0043	0.00021	1	8260B	7/2/15 16:30	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0043	0.00025	1	8260B	7/2/15 16:30	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0043	0.00026	1	8260B	7/2/15 16:30	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0043	0.00023	1	8260B	7/2/15 16:30	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0043	0.00028	1	8260B	7/2/15 16:30	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0043	0.00028	1	8260B	7/2/15 16:30	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.022	0.00059	1	8260B	7/2/15 16:30	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0043	0.00021	1	8260B	7/2/15 16:30	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.013	0.00081	1	8260B	7/2/15 16:30	MSC	P5G0040

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	124 %	70-130
Dibromofluoromethane	105 %	84-123
Toluene-d8	108 %	76-129

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	6.0	0.23	100	MADEP VPH	7/6/15 20:23	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	6.0	0.55	100	MADEP VPH	7/6/15 20:23	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	6.0	0.052	100	MADEP VPH	7/6/15 20:23	ANG	P5G0058

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	162 %	70-130 SR
2,5-Dibromotoluene (FID)	164 %	70-130 SR

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-34 4-5
Prism Sample ID: 5070005-08
Prism Work Order: 5070005
Time Collected: 06/29/15 20:05
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	13	0.95	1	MADEP EPH	7/8/15 3:52	ZRC	P5G0052
C19-C36 Aliphatics	BRL	mg/kg dry	13	1.3	1	MADEP EPH	7/8/15 3:52	ZRC	P5G0052
C11-C22 Aromatics	BRL	mg/kg dry	13	3.4	1	MADEP EPH	7/8/15 3:52	ZRC	P5G0052
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	66 %		40-140
						o-Terphenyl	65 %		40-140
						2-Fluorobiphenyl	63 %		40-140
						2-Bromonaphthalene	67 %		40-140
General Chemistry Parameters									
% Solids	75.8	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.43	0.068	1	8270D	7/6/15 20:31	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.43	0.066	1	8270D	7/6/15 20:31	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.43	0.061	1	8270D	7/6/15 20:31	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.43	0.064	1	8270D	7/6/15 20:31	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.43	0.084	1	8270D	7/6/15 20:31	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.43	0.082	1	8270D	7/6/15 20:31	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.43	0.084	1	8270D	7/6/15 20:31	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.43	0.067	1	8270D	7/6/15 20:31	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.43	0.061	1	8270D	7/6/15 20:31	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.43	0.053	1	8270D	7/6/15 20:31	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.43	0.058	1	8270D	7/6/15 20:31	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.43	0.063	1	8270D	7/6/15 20:31	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.43	0.062	1	8270D	7/6/15 20:31	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.43	0.070	1	8270D	7/6/15 20:31	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.43	0.056	1	8270D	7/6/15 20:31	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.43	0.079	1	8270D	7/6/15 20:31	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.43	0.086	1	8270D	7/6/15 20:31	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.43	0.054	1	8270D	7/6/15 20:31	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.43	0.065	1	8270D	7/6/15 20:31	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.43	0.075	1	8270D	7/6/15 20:31	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.43	0.061	1	8270D	7/6/15 20:31	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.43	0.052	1	8270D	7/6/15 20:31	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.43	0.057	1	8270D	7/6/15 20:31	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.43	0.067	1	8270D	7/6/15 20:31	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.43	0.059	1	8270D	7/6/15 20:31	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.43	0.063	1	8270D	7/6/15 20:31	JMV	P5G0053
Anthracene	BRL	mg/kg dry	0.43	0.070	1	8270D	7/6/15 20:31	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.43	0.057	1	8270D	7/6/15 20:31	JMV	P5G0053
Benzo(a)anthracene	BRL	mg/kg dry	0.43	0.057	1	8270D	7/6/15 20:31	JMV	P5G0053
Benzo(a)pyrene	BRL	mg/kg dry	0.43	0.047	1	8270D	7/6/15 20:31	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-34 4-5
Prism Sample ID: 5070005-08
Prism Work Order: 5070005
Time Collected: 06/29/15 20:05
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.43	0.050	1	8270D	7/6/15 20:31	JMV	P5G0053
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.43	0.048	1	8270D	7/6/15 20:31	JMV	P5G0053
Benzo(k)fluoranthene	BRL	mg/kg dry	0.43	0.057	1	8270D	7/6/15 20:31	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.43	0.037	1	8270D	7/6/15 20:31	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.43	0.057	1	8270D	7/6/15 20:31	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.43	0.075	1	8270D	7/6/15 20:31	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.43	0.061	1	8270D	7/6/15 20:31	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.43	0.074	1	8270D	7/6/15 20:31	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.43	0.065	1	8270D	7/6/15 20:31	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.43	0.062	1	8270D	7/6/15 20:31	JMV	P5G0053
Chrysene	BRL	mg/kg dry	0.43	0.055	1	8270D	7/6/15 20:31	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.43	0.053	1	8270D	7/6/15 20:31	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.43	0.066	1	8270D	7/6/15 20:31	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.43	0.060	1	8270D	7/6/15 20:31	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.43	0.057	1	8270D	7/6/15 20:31	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.43	0.062	1	8270D	7/6/15 20:31	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.43	0.053	1	8270D	7/6/15 20:31	JMV	P5G0053
Fluoranthene	BRL	mg/kg dry	0.43	0.055	1	8270D	7/6/15 20:31	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.43	0.062	1	8270D	7/6/15 20:31	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.43	0.069	1	8270D	7/6/15 20:31	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.43	0.078	1	8270D	7/6/15 20:31	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.43	0.078	1	8270D	7/6/15 20:31	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.43	0.073	1	8270D	7/6/15 20:31	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.43	0.050	1	8270D	7/6/15 20:31	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.43	0.059	1	8270D	7/6/15 20:31	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.43	0.070	1	8270D	7/6/15 20:31	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.43	0.062	1	8270D	7/6/15 20:31	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.43	0.069	1	8270D	7/6/15 20:31	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.43	0.066	1	8270D	7/6/15 20:31	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.43	0.051	1	8270D	7/6/15 20:31	JMV	P5G0053
Phenanthrene	BRL	mg/kg dry	0.43	0.057	1	8270D	7/6/15 20:31	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.43	0.064	1	8270D	7/6/15 20:31	JMV	P5G0053
Pyrene	BRL	mg/kg dry	0.43	0.058	1	8270D	7/6/15 20:31	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	116 %	39-132
2-Fluorobiphenyl	105 %	44-115
2-Fluorophenol	102 %	35-115
Nitrobenzene-d5	95 %	37-122
Phenol-d5	103 %	34-121
Terphenyl-d14	94 %	54-127

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00042	1	8260B	7/2/15 17:01	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 17:01	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-34 4-5
Prism Sample ID: 5070005-08
Prism Work Order: 5070005
Time Collected: 06/29/15 20:05
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	7/2/15 17:01	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0052	0.00046	1	8260B	7/2/15 17:01	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0052	0.00014	1	8260B	7/2/15 17:01	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00023	1	8260B	7/2/15 17:01	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00028	1	8260B	7/2/15 17:01	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00029	1	8260B	7/2/15 17:01	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0052	0.00066	1	8260B	7/2/15 17:01	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00038	1	8260B	7/2/15 17:01	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00039	1	8260B	7/2/15 17:01	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0052	0.00021	1	8260B	7/2/15 17:01	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00024	1	8260B	7/2/15 17:01	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 17:01	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00032	1	8260B	7/2/15 17:01	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00039	1	8260B	7/2/15 17:01	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00034	1	8260B	7/2/15 17:01	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0052	0.00026	1	8260B	7/2/15 17:01	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00020	1	8260B	7/2/15 17:01	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 17:01	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	7/2/15 17:01	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 17:01	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 17:01	MSC	P5G0040
Acetone	BRL	mg/kg dry	0.052	0.0013	1	8260B	7/2/15 17:01	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0031	0.00030	1	8260B	7/2/15 17:01	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0052	0.00043	1	8260B	7/2/15 17:01	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0052	0.00028	1	8260B	7/2/15 17:01	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0052	0.00029	1	8260B	7/2/15 17:01	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0052	0.00059	1	8260B	7/2/15 17:01	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.010	0.00064	1	8260B	7/2/15 17:01	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0052	0.00026	1	8260B	7/2/15 17:01	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	7/2/15 17:01	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.010	0.00043	1	8260B	7/2/15 17:01	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0052	0.00037	1	8260B	7/2/15 17:01	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	7/2/15 17:01	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00022	1	8260B	7/2/15 17:01	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00017	1	8260B	7/2/15 17:01	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0052	0.00021	1	8260B	7/2/15 17:01	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0052	0.00023	1	8260B	7/2/15 17:01	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0052	0.00020	1	8260B	7/2/15 17:01	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0052	0.00021	1	8260B	7/2/15 17:01	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 17:01	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00048	1	8260B	7/2/15 17:01	MSC	P5G0040
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.052	0.00047	1	8260B	7/2/15 17:01	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00047	1	8260B	7/2/15 17:01	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-34 4-5
Prism Sample ID: 5070005-08
Prism Work Order: 5070005
Time Collected: 06/29/15 20:05
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.052	0.00044	1	8260B	7/2/15 17:01	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0052	0.00029	1	8260B	7/2/15 17:01	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00017	1	8260B	7/2/15 17:01	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.010	0.00016	1	8260B	7/2/15 17:01	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0052	0.00026	1	8260B	7/2/15 17:01	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 17:01	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0052	0.00021	1	8260B	7/2/15 17:01	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 17:01	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 17:01	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0052	0.00017	1	8260B	7/2/15 17:01	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 17:01	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0052	0.00030	1	8260B	7/2/15 17:01	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 17:01	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	7/2/15 17:01	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0052	0.00033	1	8260B	7/2/15 17:01	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0052	0.00033	1	8260B	7/2/15 17:01	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.026	0.00071	1	8260B	7/2/15 17:01	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 17:01	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.016	0.00097	1	8260B	7/2/15 17:01	MSC	P5G0040
<hr/>						Surrogate	Recovery	Control Limits	
						4-Bromofluorobenzene	115 %	70-130	
						Dibromofluoromethane	111 %	84-123	
						Toluene-d8	103 %	76-129	

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.9	0.19	100	MADEP VPH	7/7/15 10:20	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	4.9	0.45	100	MADEP VPH	7/7/15 10:20	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	4.9	0.042	100	MADEP VPH	7/7/15 10:20	ANG	P5G0058
<hr/>						Surrogate	Recovery	Control Limits	
						2,5-Dibromotoluene (PID)	97 %	70-130	
						2,5-Dibromotoluene (FID)	98 %	70-130	

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-36 2-4
Prism Sample ID: 5070005-09
Prism Work Order: 5070005
Time Collected: 06/29/15 19:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	13	0.96	1	MADEP EPH	7/8/15 4:29	ZRC	P5G0052
C19-C36 Aliphatics	BRL	mg/kg dry	13	1.3	1	MADEP EPH	7/8/15 4:29	ZRC	P5G0052
C11-C22 Aromatics	BRL	mg/kg dry	13	3.4	1	MADEP EPH	7/8/15 4:29	ZRC	P5G0052
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	52 %		40-140
						o-Terphenyl	56 %		40-140
						2-Fluorobiphenyl	53 %		40-140
						2-Bromonaphthalene	56 %		40-140
General Chemistry Parameters									
% Solids	75.1	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.44	0.069	1	8270D	7/6/15 20:52	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.44	0.067	1	8270D	7/6/15 20:52	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 20:52	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.44	0.064	1	8270D	7/6/15 20:52	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.44	0.085	1	8270D	7/6/15 20:52	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.44	0.082	1	8270D	7/6/15 20:52	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.44	0.085	1	8270D	7/6/15 20:52	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.44	0.067	1	8270D	7/6/15 20:52	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.44	0.061	1	8270D	7/6/15 20:52	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.44	0.053	1	8270D	7/6/15 20:52	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 20:52	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.44	0.064	1	8270D	7/6/15 20:52	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 20:52	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.44	0.070	1	8270D	7/6/15 20:52	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.44	0.056	1	8270D	7/6/15 20:52	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.44	0.080	1	8270D	7/6/15 20:52	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.44	0.087	1	8270D	7/6/15 20:52	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.44	0.054	1	8270D	7/6/15 20:52	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.44	0.066	1	8270D	7/6/15 20:52	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.44	0.075	1	8270D	7/6/15 20:52	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 20:52	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.44	0.053	1	8270D	7/6/15 20:52	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.44	0.057	1	8270D	7/6/15 20:52	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.44	0.068	1	8270D	7/6/15 20:52	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.44	0.060	1	8270D	7/6/15 20:52	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.44	0.064	1	8270D	7/6/15 20:52	JMV	P5G0053
Anthracene	BRL	mg/kg dry	0.44	0.071	1	8270D	7/6/15 20:52	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 20:52	JMV	P5G0053
Benzo(a)anthracene	BRL	mg/kg dry	0.44	0.057	1	8270D	7/6/15 20:52	JMV	P5G0053
Benzo(a)pyrene	BRL	mg/kg dry	0.44	0.048	1	8270D	7/6/15 20:52	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-36 2-4
Prism Sample ID: 5070005-09
Prism Work Order: 5070005
Time Collected: 06/29/15 19:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.44	0.051	1	8270D	7/6/15 20:52	JMV	P5G0053
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.44	0.048	1	8270D	7/6/15 20:52	JMV	P5G0053
Benzo(k)fluoranthene	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 20:52	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.44	0.037	1	8270D	7/6/15 20:52	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 20:52	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.44	0.076	1	8270D	7/6/15 20:52	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.44	0.062	1	8270D	7/6/15 20:52	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.44	0.075	1	8270D	7/6/15 20:52	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.44	0.065	1	8270D	7/6/15 20:52	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.44	0.063	1	8270D	7/6/15 20:52	JMV	P5G0053
Chrysene	BRL	mg/kg dry	0.44	0.055	1	8270D	7/6/15 20:52	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.44	0.054	1	8270D	7/6/15 20:52	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.44	0.067	1	8270D	7/6/15 20:52	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.44	0.061	1	8270D	7/6/15 20:52	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 20:52	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 20:52	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.44	0.054	1	8270D	7/6/15 20:52	JMV	P5G0053
Fluoranthene	BRL	mg/kg dry	0.44	0.056	1	8270D	7/6/15 20:52	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.44	0.063	1	8270D	7/6/15 20:52	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.44	0.070	1	8270D	7/6/15 20:52	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.44	0.079	1	8270D	7/6/15 20:52	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.44	0.078	1	8270D	7/6/15 20:52	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.44	0.074	1	8270D	7/6/15 20:52	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.44	0.050	1	8270D	7/6/15 20:52	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.44	0.059	1	8270D	7/6/15 20:52	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.44	0.071	1	8270D	7/6/15 20:52	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 20:52	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.44	0.069	1	8270D	7/6/15 20:52	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.44	0.067	1	8270D	7/6/15 20:52	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.44	0.052	1	8270D	7/6/15 20:52	JMV	P5G0053
Phenanthrene	BRL	mg/kg dry	0.44	0.057	1	8270D	7/6/15 20:52	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.44	0.065	1	8270D	7/6/15 20:52	JMV	P5G0053
Pyrene	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 20:52	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	98 %	39-132
2-Fluorobiphenyl	100 %	44-115
2-Fluorophenol	94 %	35-115
Nitrobenzene-d5	95 %	37-122
Phenol-d5	96 %	34-121
Terphenyl-d14	89 %	54-127

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0054	0.00044	1	8260B	7/2/15 17:32	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0054	0.00026	1	8260B	7/2/15 17:32	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-36 2-4
Prism Sample ID: 5070005-09
Prism Work Order: 5070005
Time Collected: 06/29/15 19:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0054	0.00036	1	8260B	7/2/15 17:32	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0054	0.00048	1	8260B	7/2/15 17:32	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0054	0.00015	1	8260B	7/2/15 17:32	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00024	1	8260B	7/2/15 17:32	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00029	1	8260B	7/2/15 17:32	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0054	0.00030	1	8260B	7/2/15 17:32	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0054	0.00068	1	8260B	7/2/15 17:32	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0054	0.00040	1	8260B	7/2/15 17:32	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0054	0.00041	1	8260B	7/2/15 17:32	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0054	0.00022	1	8260B	7/2/15 17:32	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.00025	1	8260B	7/2/15 17:32	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0054	0.00032	1	8260B	7/2/15 17:32	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0054	0.00033	1	8260B	7/2/15 17:32	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0054	0.00041	1	8260B	7/2/15 17:32	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.00036	1	8260B	7/2/15 17:32	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0054	0.00027	1	8260B	7/2/15 17:32	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0054	0.00021	1	8260B	7/2/15 17:32	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0054	0.00026	1	8260B	7/2/15 17:32	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0054	0.00028	1	8260B	7/2/15 17:32	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0054	0.00032	1	8260B	7/2/15 17:32	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0054	0.00026	1	8260B	7/2/15 17:32	MSC	P5G0040
Acetone	0.10	mg/kg dry	0.054	0.0013	1	8260B	7/2/15 17:32	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0032	0.00031	1	8260B	7/2/15 17:32	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0054	0.00045	1	8260B	7/2/15 17:32	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0054	0.00030	1	8260B	7/2/15 17:32	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0054	0.00030	1	8260B	7/2/15 17:32	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0054	0.00061	1	8260B	7/2/15 17:32	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.011	0.00066	1	8260B	7/2/15 17:32	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0054	0.00027	1	8260B	7/2/15 17:32	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0054	0.00028	1	8260B	7/2/15 17:32	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.011	0.00045	1	8260B	7/2/15 17:32	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0054	0.00039	1	8260B	7/2/15 17:32	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0054	0.00036	1	8260B	7/2/15 17:32	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00023	1	8260B	7/2/15 17:32	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00018	1	8260B	7/2/15 17:32	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0054	0.00022	1	8260B	7/2/15 17:32	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0054	0.00024	1	8260B	7/2/15 17:32	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0054	0.00021	1	8260B	7/2/15 17:32	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0054	0.00022	1	8260B	7/2/15 17:32	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0054	0.00032	1	8260B	7/2/15 17:32	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00049	1	8260B	7/2/15 17:32	MSC	P5G0040
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.054	0.00049	1	8260B	7/2/15 17:32	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00049	1	8260B	7/2/15 17:32	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-36 2-4
Prism Sample ID: 5070005-09
Prism Work Order: 5070005
Time Collected: 06/29/15 19:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.054	0.00046	1	8260B	7/2/15 17:32	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0054	0.00030	1	8260B	7/2/15 17:32	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00017	1	8260B	7/2/15 17:32	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.011	0.00017	1	8260B	7/2/15 17:32	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0054	0.00027	1	8260B	7/2/15 17:32	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0054	0.00032	1	8260B	7/2/15 17:32	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0054	0.00022	1	8260B	7/2/15 17:32	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0054	0.00026	1	8260B	7/2/15 17:32	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0054	0.00032	1	8260B	7/2/15 17:32	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0054	0.00018	1	8260B	7/2/15 17:32	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0054	0.00026	1	8260B	7/2/15 17:32	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0054	0.00031	1	8260B	7/2/15 17:32	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0054	0.00032	1	8260B	7/2/15 17:32	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0054	0.00028	1	8260B	7/2/15 17:32	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0054	0.00035	1	8260B	7/2/15 17:32	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0054	0.00035	1	8260B	7/2/15 17:32	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.027	0.00074	1	8260B	7/2/15 17:32	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0054	0.00026	1	8260B	7/2/15 17:32	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.016	0.0010	1	8260B	7/2/15 17:32	MSC	P5G0040
Surrogate						Recovery		Control Limits	
4-Bromofluorobenzene						120 %		70-130	
Dibromofluoromethane						108 %		84-123	
Toluene-d8						105 %		76-129	

Volatile Petroleum Hydrocarbons by GC/PID/FID

Parameter	Result	Units	5.0	0.19	100	MADEP VPH	7/6/15 21:26	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	5.0	0.46	100	MADEP VPH	7/6/15 21:26	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	5.0	0.043	100	MADEP VPH	7/6/15 21:26	ANG	P5G0058
Surrogate						Recovery		Control Limits	
2,5-Dibromotoluene (PID)						144 %		70-130	
2,5-Dibromotoluene (FID)						147 %		70-130	

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-37 0-2
Prism Sample ID: 5070005-10
Prism Work Order: 5070005
Time Collected: 06/29/15 18:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	1.3 J	mg/kg dry	11	0.81	1	MADEP EPH	7/8/15 5:42	ZRC	P5G0052
C19-C36 Aliphatics	2.9 J	mg/kg dry	11	1.1	1	MADEP EPH	7/8/15 5:42	ZRC	P5G0052
C11-C22 Aromatics	15	mg/kg dry	11	2.9	1	MADEP EPH	7/8/15 5:42	ZRC	P5G0052
				Surrogate		Recovery		Control Limits	
				1-Chlorooctadecane		62 %		40-140	
				o-Terphenyl		68 %		40-140	
				2-Fluorobiphenyl		65 %		40-140	
				2-Bromonaphthalene		66 %		40-140	
General Chemistry Parameters									
% Solids	88.4	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.37	0.058	1	8270D	7/6/15 21:13	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.37	0.057	1	8270D	7/6/15 21:13	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.37	0.053	1	8270D	7/6/15 21:13	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.37	0.055	1	8270D	7/6/15 21:13	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.37	0.072	1	8270D	7/6/15 21:13	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.37	0.070	1	8270D	7/6/15 21:13	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.37	0.072	1	8270D	7/6/15 21:13	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.37	0.057	1	8270D	7/6/15 21:13	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.37	0.052	1	8270D	7/6/15 21:13	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.37	0.045	1	8270D	7/6/15 21:13	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.37	0.050	1	8270D	7/6/15 21:13	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.37	0.054	1	8270D	7/6/15 21:13	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.37	0.053	1	8270D	7/6/15 21:13	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.37	0.060	1	8270D	7/6/15 21:13	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.37	0.048	1	8270D	7/6/15 21:13	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.37	0.068	1	8270D	7/6/15 21:13	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.37	0.074	1	8270D	7/6/15 21:13	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.37	0.046	1	8270D	7/6/15 21:13	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.37	0.056	1	8270D	7/6/15 21:13	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.37	0.064	1	8270D	7/6/15 21:13	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.37	0.052	1	8270D	7/6/15 21:13	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.37	0.045	1	8270D	7/6/15 21:13	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.37	0.049	1	8270D	7/6/15 21:13	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.37	0.058	1	8270D	7/6/15 21:13	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.37	0.051	1	8270D	7/6/15 21:13	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.37	0.054	1	8270D	7/6/15 21:13	JMV	P5G0053
Anthracene	0.24 J	mg/kg dry	0.37	0.060	1	8270D	7/6/15 21:13	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.37	0.049	1	8270D	7/6/15 21:13	JMV	P5G0053
Benzo(a)anthracene	0.54	mg/kg dry	0.37	0.049	1	8270D	7/6/15 21:13	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-37 0-2
Prism Sample ID: 5070005-10
Prism Work Order: 5070005
Time Collected: 06/29/15 18:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)pyrene	0.49	mg/kg dry	0.37	0.040	1	8270D	7/6/15 21:13	JMV	P5G0053
Benzo(b)fluoranthene	0.71	mg/kg dry	0.37	0.043	1	8270D	7/6/15 21:13	JMV	P5G0053
Benzo(g,h,i)perylene	0.32 J	mg/kg dry	0.37	0.041	1	8270D	7/6/15 21:13	JMV	P5G0053
Benzo(k)fluoranthene	0.22 J	mg/kg dry	0.37	0.049	1	8270D	7/6/15 21:13	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.37	0.031	1	8270D	7/6/15 21:13	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.37	0.049	1	8270D	7/6/15 21:13	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.37	0.065	1	8270D	7/6/15 21:13	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.37	0.053	1	8270D	7/6/15 21:13	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.37	0.064	1	8270D	7/6/15 21:13	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.37	0.055	1	8270D	7/6/15 21:13	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.37	0.053	1	8270D	7/6/15 21:13	JMV	P5G0053
Chrysene	0.55	mg/kg dry	0.37	0.047	1	8270D	7/6/15 21:13	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.37	0.045	1	8270D	7/6/15 21:13	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.37	0.057	1	8270D	7/6/15 21:13	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.37	0.051	1	8270D	7/6/15 21:13	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.37	0.049	1	8270D	7/6/15 21:13	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.37	0.053	1	8270D	7/6/15 21:13	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.37	0.046	1	8270D	7/6/15 21:13	JMV	P5G0053
Fluoranthene	1.2	mg/kg dry	0.37	0.048	1	8270D	7/6/15 21:13	JMV	P5G0053
Fluorene	0.095 J	mg/kg dry	0.37	0.054	1	8270D	7/6/15 21:13	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.37	0.059	1	8270D	7/6/15 21:13	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.37	0.067	1	8270D	7/6/15 21:13	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.37	0.067	1	8270D	7/6/15 21:13	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.37	0.063	1	8270D	7/6/15 21:13	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	0.33 J	mg/kg dry	0.37	0.043	1	8270D	7/6/15 21:13	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.37	0.051	1	8270D	7/6/15 21:13	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.37	0.060	1	8270D	7/6/15 21:13	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.37	0.053	1	8270D	7/6/15 21:13	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.37	0.059	1	8270D	7/6/15 21:13	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.37	0.057	1	8270D	7/6/15 21:13	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.37	0.044	1	8270D	7/6/15 21:13	JMV	P5G0053
Phenanthrene	0.90	mg/kg dry	0.37	0.049	1	8270D	7/6/15 21:13	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.37	0.055	1	8270D	7/6/15 21:13	JMV	P5G0053
Pyrene	0.87	mg/kg dry	0.37	0.049	1	8270D	7/6/15 21:13	JMV	P5G0053
Surrogate						Recovery		Control Limits	
						108 %		39-132	
						113 %		44-115	
						101 %		35-115	
						103 %		37-122	
						105 %		34-121	
						101 %		54-127	

Volatile Organic Compounds by GC/MS

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-37 0-2
Prism Sample ID: 5070005-10
Prism Work Order: 5070005
Time Collected: 06/29/15 18:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00039	1	8260B	7/2/15 18:03	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 18:03	MSC	P5G0040
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0048	0.00032	1	8260B	7/2/15 18:03	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0048	0.00042	1	8260B	7/2/15 18:03	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0048	0.00013	1	8260B	7/2/15 18:03	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00021	1	8260B	7/2/15 18:03	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00026	1	8260B	7/2/15 18:03	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00027	1	8260B	7/2/15 18:03	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0048	0.00061	1	8260B	7/2/15 18:03	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0048	0.00035	1	8260B	7/2/15 18:03	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00036	1	8260B	7/2/15 18:03	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0048	0.00019	1	8260B	7/2/15 18:03	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00022	1	8260B	7/2/15 18:03	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0048	0.00028	1	8260B	7/2/15 18:03	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00030	1	8260B	7/2/15 18:03	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0048	0.00036	1	8260B	7/2/15 18:03	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00032	1	8260B	7/2/15 18:03	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0048	0.00024	1	8260B	7/2/15 18:03	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0048	0.00019	1	8260B	7/2/15 18:03	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 18:03	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	7/2/15 18:03	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0048	0.00028	1	8260B	7/2/15 18:03	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 18:03	MSC	P5G0040
Acetone	0.083	mg/kg dry	0.048	0.0012	1	8260B	7/2/15 18:03	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0029	0.00028	1	8260B	7/2/15 18:03	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0048	0.00040	1	8260B	7/2/15 18:03	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0048	0.00026	1	8260B	7/2/15 18:03	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0048	0.00027	1	8260B	7/2/15 18:03	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0048	0.00054	1	8260B	7/2/15 18:03	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.0095	0.00059	1	8260B	7/2/15 18:03	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0048	0.00024	1	8260B	7/2/15 18:03	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	7/2/15 18:03	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.0095	0.00040	1	8260B	7/2/15 18:03	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0048	0.00034	1	8260B	7/2/15 18:03	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0048	0.00032	1	8260B	7/2/15 18:03	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00020	1	8260B	7/2/15 18:03	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	7/2/15 18:03	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0048	0.00020	1	8260B	7/2/15 18:03	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0048	0.00022	1	8260B	7/2/15 18:03	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0048	0.00018	1	8260B	7/2/15 18:03	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0048	0.00019	1	8260B	7/2/15 18:03	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0048	0.00028	1	8260B	7/2/15 18:03	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.0095	0.00044	1	8260B	7/2/15 18:03	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-37 0-2
Prism Sample ID: 5070005-10
Prism Work Order: 5070005
Time Collected: 06/29/15 18:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.048	0.00043	1	8260B	7/2/15 18:03	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.095	0.00043	1	8260B	7/2/15 18:03	MSC	P5G0040
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.048	0.00041	1	8260B	7/2/15 18:03	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0048	0.00027	1	8260B	7/2/15 18:03	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0095	0.00015	1	8260B	7/2/15 18:03	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.0095	0.00015	1	8260B	7/2/15 18:03	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0048	0.00024	1	8260B	7/2/15 18:03	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0048	0.00028	1	8260B	7/2/15 18:03	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0048	0.00020	1	8260B	7/2/15 18:03	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 18:03	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	7/2/15 18:03	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0048	0.00016	1	8260B	7/2/15 18:03	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 18:03	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0048	0.00027	1	8260B	7/2/15 18:03	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0048	0.00029	1	8260B	7/2/15 18:03	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0048	0.00025	1	8260B	7/2/15 18:03	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0048	0.00031	1	8260B	7/2/15 18:03	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0048	0.00031	1	8260B	7/2/15 18:03	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.024	0.00065	1	8260B	7/2/15 18:03	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0048	0.00023	1	8260B	7/2/15 18:03	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.014	0.00089	1	8260B	7/2/15 18:03	MSC	P5G0040

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	120 %	70-130
Dibromofluoromethane	106 %	84-123
Toluene-d8	103 %	76-129

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.4	0.21	100	MADEP VPH	7/6/15 21:58	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	5.4	0.49	100	MADEP VPH	7/6/15 21:58	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	5.4	0.046	100	MADEP VPH	7/6/15 21:58	ANG	P5G0058

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	176 %	70-130 SR
2,5-Dibromotoluene (FID)	178 %	70-130

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-38 0-2
Prism Sample ID: 5070005-11
Prism Work Order: 5070005
Time Collected: 06/29/15 18:55
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	11	0.79	1	MADEP EPH	7/8/15 6:18	ZRC	P5G0052
C19-C36 Aliphatics	BRL	mg/kg dry	11	1.0	1	MADEP EPH	7/8/15 6:18	ZRC	P5G0052
C11-C22 Aromatics	BRL	mg/kg dry	11	2.8	1	MADEP EPH	7/8/15 6:18	ZRC	P5G0052
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	73 %		40-140
						o-Terphenyl	65 %		40-140
						2-Fluorobiphenyl	66 %		40-140
						2-Bromonaphthalene	71 %		40-140
General Chemistry Parameters									
% Solids	91.2	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.36	0.056	1	8270D	7/6/15 21:34	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.36	0.055	1	8270D	7/6/15 21:34	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.36	0.051	1	8270D	7/6/15 21:34	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.36	0.053	1	8270D	7/6/15 21:34	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.36	0.070	1	8270D	7/6/15 21:34	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.36	0.068	1	8270D	7/6/15 21:34	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.36	0.070	1	8270D	7/6/15 21:34	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.36	0.055	1	8270D	7/6/15 21:34	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.36	0.051	1	8270D	7/6/15 21:34	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.36	0.044	1	8270D	7/6/15 21:34	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.36	0.048	1	8270D	7/6/15 21:34	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.36	0.052	1	8270D	7/6/15 21:34	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.36	0.051	1	8270D	7/6/15 21:34	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.36	0.058	1	8270D	7/6/15 21:34	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.36	0.046	1	8270D	7/6/15 21:34	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.36	0.066	1	8270D	7/6/15 21:34	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.36	0.071	1	8270D	7/6/15 21:34	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.36	0.045	1	8270D	7/6/15 21:34	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.36	0.054	1	8270D	7/6/15 21:34	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.36	0.062	1	8270D	7/6/15 21:34	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.36	0.051	1	8270D	7/6/15 21:34	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.36	0.044	1	8270D	7/6/15 21:34	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.36	0.047	1	8270D	7/6/15 21:34	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.36	0.056	1	8270D	7/6/15 21:34	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.36	0.049	1	8270D	7/6/15 21:34	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.36	0.052	1	8270D	7/6/15 21:34	JMV	P5G0053
Anthracene	BRL	mg/kg dry	0.36	0.058	1	8270D	7/6/15 21:34	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.36	0.048	1	8270D	7/6/15 21:34	JMV	P5G0053
Benzo(a)anthracene	0.16 J	mg/kg dry	0.36	0.047	1	8270D	7/6/15 21:34	JMV	P5G0053
Benzo(a)pyrene	0.15 J	mg/kg dry	0.36	0.039	1	8270D	7/6/15 21:34	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-38 0-2
Prism Sample ID: 5070005-11
Prism Work Order: 5070005
Time Collected: 06/29/15 18:55
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	0.21 J	mg/kg dry	0.36	0.042	1	8270D	7/6/15 21:34	JMV	P5G0053
Benzo(g,h,i)perylene	0.096 J	mg/kg dry	0.36	0.040	1	8270D	7/6/15 21:34	JMV	P5G0053
Benzo(k)fluoranthene	BRL	mg/kg dry	0.36	0.047	1	8270D	7/6/15 21:34	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.36	0.030	1	8270D	7/6/15 21:34	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.36	0.048	1	8270D	7/6/15 21:34	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.36	0.063	1	8270D	7/6/15 21:34	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.36	0.051	1	8270D	7/6/15 21:34	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.36	0.062	1	8270D	7/6/15 21:34	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.36	0.054	1	8270D	7/6/15 21:34	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.36	0.052	1	8270D	7/6/15 21:34	JMV	P5G0053
Chrysene	0.18 J	mg/kg dry	0.36	0.046	1	8270D	7/6/15 21:34	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.36	0.044	1	8270D	7/6/15 21:34	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.36	0.055	1	8270D	7/6/15 21:34	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.36	0.050	1	8270D	7/6/15 21:34	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.36	0.048	1	8270D	7/6/15 21:34	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.36	0.051	1	8270D	7/6/15 21:34	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.36	0.045	1	8270D	7/6/15 21:34	JMV	P5G0053
Fluoranthene	0.37	mg/kg dry	0.36	0.046	1	8270D	7/6/15 21:34	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.36	0.052	1	8270D	7/6/15 21:34	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.36	0.057	1	8270D	7/6/15 21:34	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.36	0.065	1	8270D	7/6/15 21:34	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.36	0.065	1	8270D	7/6/15 21:34	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.36	0.061	1	8270D	7/6/15 21:34	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	0.098 J	mg/kg dry	0.36	0.042	1	8270D	7/6/15 21:34	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.36	0.049	1	8270D	7/6/15 21:34	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.36	0.058	1	8270D	7/6/15 21:34	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.36	0.051	1	8270D	7/6/15 21:34	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.36	0.057	1	8270D	7/6/15 21:34	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.36	0.055	1	8270D	7/6/15 21:34	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.36	0.043	1	8270D	7/6/15 21:34	JMV	P5G0053
Phenanthrene	0.20 J	mg/kg dry	0.36	0.047	1	8270D	7/6/15 21:34	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.36	0.053	1	8270D	7/6/15 21:34	JMV	P5G0053
Pyrene	0.27 J	mg/kg dry	0.36	0.048	1	8270D	7/6/15 21:34	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	113 %	39-132
2-Fluorobiphenyl	109 %	44-115
2-Fluorophenol	105 %	35-115
Nitrobenzene-d5	100 %	37-122
Phenol-d5	106 %	34-121
Terphenyl-d14	93 %	54-127

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00044	1	8260B	7/2/15 18:35	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0053	0.00026	1	8260B	7/2/15 18:35	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness
 Sample Matrix: Solid

Client Sample ID: SB-38 0-2
 Prism Sample ID: 5070005-11
 Prism Work Order: 5070005
 Time Collected: 06/29/15 18:55
 Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0053	0.00036	1	8260B	7/2/15 18:35	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0053	0.00047	1	8260B	7/2/15 18:35	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0053	0.00015	1	8260B	7/2/15 18:35	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00023	1	8260B	7/2/15 18:35	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00029	1	8260B	7/2/15 18:35	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00030	1	8260B	7/2/15 18:35	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0053	0.00068	1	8260B	7/2/15 18:35	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0053	0.00039	1	8260B	7/2/15 18:35	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00041	1	8260B	7/2/15 18:35	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0053	0.00021	1	8260B	7/2/15 18:35	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00025	1	8260B	7/2/15 18:35	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0053	0.00032	1	8260B	7/2/15 18:35	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00033	1	8260B	7/2/15 18:35	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0053	0.00040	1	8260B	7/2/15 18:35	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00035	1	8260B	7/2/15 18:35	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0053	0.00027	1	8260B	7/2/15 18:35	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0053	0.00021	1	8260B	7/2/15 18:35	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0053	0.00025	1	8260B	7/2/15 18:35	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00027	1	8260B	7/2/15 18:35	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	7/2/15 18:35	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0053	0.00026	1	8260B	7/2/15 18:35	MSC	P5G0040
Acetone	0.080	mg/kg dry	0.053	0.0013	1	8260B	7/2/15 18:35	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0032	0.00031	1	8260B	7/2/15 18:35	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0053	0.00044	1	8260B	7/2/15 18:35	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0053	0.00029	1	8260B	7/2/15 18:35	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0053	0.00030	1	8260B	7/2/15 18:35	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0053	0.00060	1	8260B	7/2/15 18:35	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.011	0.00065	1	8260B	7/2/15 18:35	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0053	0.00026	1	8260B	7/2/15 18:35	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0053	0.00028	1	8260B	7/2/15 18:35	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.011	0.00044	1	8260B	7/2/15 18:35	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0053	0.00038	1	8260B	7/2/15 18:35	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0053	0.00036	1	8260B	7/2/15 18:35	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00023	1	8260B	7/2/15 18:35	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00018	1	8260B	7/2/15 18:35	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0053	0.00022	1	8260B	7/2/15 18:35	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0053	0.00024	1	8260B	7/2/15 18:35	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0053	0.00020	1	8260B	7/2/15 18:35	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0053	0.00022	1	8260B	7/2/15 18:35	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0053	0.00031	1	8260B	7/2/15 18:35	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00049	1	8260B	7/2/15 18:35	MSC	P5G0040
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.053	0.00048	1	8260B	7/2/15 18:35	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00048	1	8260B	7/2/15 18:35	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-38 0-2
Prism Sample ID: 5070005-11
Prism Work Order: 5070005
Time Collected: 06/29/15 18:55
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.053	0.00045	1	8260B	7/2/15 18:35	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0053	0.00030	1	8260B	7/2/15 18:35	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00017	1	8260B	7/2/15 18:35	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.011	0.00017	1	8260B	7/2/15 18:35	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0053	0.00027	1	8260B	7/2/15 18:35	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	7/2/15 18:35	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0053	0.00022	1	8260B	7/2/15 18:35	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0053	0.00026	1	8260B	7/2/15 18:35	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	7/2/15 18:35	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0053	0.00018	1	8260B	7/2/15 18:35	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0053	0.00025	1	8260B	7/2/15 18:35	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0053	0.00030	1	8260B	7/2/15 18:35	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0053	0.00032	1	8260B	7/2/15 18:35	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0053	0.00028	1	8260B	7/2/15 18:35	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0053	0.00034	1	8260B	7/2/15 18:35	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0053	0.00034	1	8260B	7/2/15 18:35	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.027	0.00073	1	8260B	7/2/15 18:35	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0053	0.00026	1	8260B	7/2/15 18:35	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.016	0.00099	1	8260B	7/2/15 18:35	MSC	P5G0040

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	118 %	70-130
Dibromofluoromethane	107 %	84-123
Toluene-d8	105 %	76-129

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.9	0.19	100	MADEP VPH	7/6/15 22:29	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	4.9	0.45	100	MADEP VPH	7/6/15 22:29	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	4.9	0.042	100	MADEP VPH	7/6/15 22:29	ANG	P5G0058

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	148 %	70-130 SR
2,5-Dibromotoluene (FID)	150 %	70-130

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-38 2-4
Prism Sample ID: 5070005-12
Prism Work Order: 5070005
Time Collected: 06/29/15 19:55
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	12	0.85	1	MADEP EPH	7/8/15 6:54	ZRC	P5G0052
C19-C36 Aliphatics	BRL	mg/kg dry	12	1.1	1	MADEP EPH	7/8/15 6:54	ZRC	P5G0052
C11-C22 Aromatics	BRL	mg/kg dry	12	3.0	1	MADEP EPH	7/8/15 6:54	ZRC	P5G0052
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	56 %		40-140
						o-Terphenyl	61 %		40-140
						2-Fluorobiphenyl	65 %		40-140
						2-Bromonaphthalene	69 %		40-140
General Chemistry Parameters									
% Solids	84.3	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.39	0.061	1	8270D	7/6/15 21:56	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.39	0.059	1	8270D	7/6/15 21:56	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 21:56	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.39	0.057	1	8270D	7/6/15 21:56	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.39	0.075	1	8270D	7/6/15 21:56	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.39	0.073	1	8270D	7/6/15 21:56	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.39	0.076	1	8270D	7/6/15 21:56	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.39	0.060	1	8270D	7/6/15 21:56	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 21:56	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.39	0.048	1	8270D	7/6/15 21:56	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.39	0.052	1	8270D	7/6/15 21:56	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.39	0.057	1	8270D	7/6/15 21:56	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.39	0.056	1	8270D	7/6/15 21:56	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.39	0.063	1	8270D	7/6/15 21:56	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.39	0.050	1	8270D	7/6/15 21:56	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.39	0.071	1	8270D	7/6/15 21:56	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.39	0.077	1	8270D	7/6/15 21:56	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.39	0.048	1	8270D	7/6/15 21:56	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.39	0.059	1	8270D	7/6/15 21:56	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.39	0.067	1	8270D	7/6/15 21:56	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.39	0.055	1	8270D	7/6/15 21:56	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.39	0.047	1	8270D	7/6/15 21:56	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 21:56	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.39	0.060	1	8270D	7/6/15 21:56	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.39	0.053	1	8270D	7/6/15 21:56	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.39	0.057	1	8270D	7/6/15 21:56	JMV	P5G0053
Anthracene	BRL	mg/kg dry	0.39	0.063	1	8270D	7/6/15 21:56	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.39	0.052	1	8270D	7/6/15 21:56	JMV	P5G0053
Benzo(a)anthracene	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 21:56	JMV	P5G0053
Benzo(a)pyrene	BRL	mg/kg dry	0.39	0.042	1	8270D	7/6/15 21:56	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-38 2-4
Prism Sample ID: 5070005-12
Prism Work Order: 5070005
Time Collected: 06/29/15 19:55
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	BRL	mg/kg dry	0.39	0.045	1	8270D	7/6/15 21:56	JMV	P5G0053
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.39	0.043	1	8270D	7/6/15 21:56	JMV	P5G0053
Benzo(k)fluoranthene	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 21:56	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.39	0.033	1	8270D	7/6/15 21:56	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.39	0.052	1	8270D	7/6/15 21:56	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.39	0.068	1	8270D	7/6/15 21:56	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.39	0.055	1	8270D	7/6/15 21:56	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.39	0.067	1	8270D	7/6/15 21:56	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.39	0.058	1	8270D	7/6/15 21:56	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.39	0.056	1	8270D	7/6/15 21:56	JMV	P5G0053
Chrysene	BRL	mg/kg dry	0.39	0.049	1	8270D	7/6/15 21:56	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.39	0.048	1	8270D	7/6/15 21:56	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.39	0.060	1	8270D	7/6/15 21:56	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.39	0.054	1	8270D	7/6/15 21:56	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.39	0.052	1	8270D	7/6/15 21:56	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.39	0.056	1	8270D	7/6/15 21:56	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.39	0.048	1	8270D	7/6/15 21:56	JMV	P5G0053
Fluoranthene	BRL	mg/kg dry	0.39	0.050	1	8270D	7/6/15 21:56	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.39	0.056	1	8270D	7/6/15 21:56	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.39	0.062	1	8270D	7/6/15 21:56	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.39	0.070	1	8270D	7/6/15 21:56	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.39	0.070	1	8270D	7/6/15 21:56	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.39	0.066	1	8270D	7/6/15 21:56	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.39	0.045	1	8270D	7/6/15 21:56	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.39	0.053	1	8270D	7/6/15 21:56	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.39	0.063	1	8270D	7/6/15 21:56	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.39	0.056	1	8270D	7/6/15 21:56	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.39	0.062	1	8270D	7/6/15 21:56	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.39	0.060	1	8270D	7/6/15 21:56	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.39	0.046	1	8270D	7/6/15 21:56	JMV	P5G0053
Phenanthrene	BRL	mg/kg dry	0.39	0.051	1	8270D	7/6/15 21:56	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.39	0.058	1	8270D	7/6/15 21:56	JMV	P5G0053
Pyrene	BRL	mg/kg dry	0.39	0.052	1	8270D	7/6/15 21:56	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	110 %	39-132
2-Fluorobiphenyl	105 %	44-115
2-Fluorophenol	100 %	35-115
Nitrobenzene-d5	95 %	37-122
Phenol-d5	101 %	34-121
Terphenyl-d14	95 %	54-127

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00043	1	8260B	7/2/15 19:06	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 19:06	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness
 Sample Matrix: Solid

Client Sample ID: SB-38 2-4
 Prism Sample ID: 5070005-12
 Prism Work Order: 5070005
 Time Collected: 06/29/15 19:55
 Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	7/2/15 19:06	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0052	0.00046	1	8260B	7/2/15 19:06	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0052	0.00015	1	8260B	7/2/15 19:06	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00023	1	8260B	7/2/15 19:06	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00029	1	8260B	7/2/15 19:06	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00030	1	8260B	7/2/15 19:06	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0052	0.00067	1	8260B	7/2/15 19:06	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0052	0.00039	1	8260B	7/2/15 19:06	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00040	1	8260B	7/2/15 19:06	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0052	0.00021	1	8260B	7/2/15 19:06	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 19:06	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 19:06	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00033	1	8260B	7/2/15 19:06	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0052	0.00040	1	8260B	7/2/15 19:06	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00035	1	8260B	7/2/15 19:06	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0052	0.00026	1	8260B	7/2/15 19:06	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0052	0.00021	1	8260B	7/2/15 19:06	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 19:06	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	7/2/15 19:06	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 19:06	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 19:06	MSC	P5G0040
Acetone	0.051 J	mg/kg dry	0.052	0.0013	1	8260B	7/2/15 19:06	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0031	0.00031	1	8260B	7/2/15 19:06	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0052	0.00044	1	8260B	7/2/15 19:06	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0052	0.00029	1	8260B	7/2/15 19:06	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0052	0.00029	1	8260B	7/2/15 19:06	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0052	0.00060	1	8260B	7/2/15 19:06	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.010	0.00065	1	8260B	7/2/15 19:06	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0052	0.00026	1	8260B	7/2/15 19:06	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0052	0.00028	1	8260B	7/2/15 19:06	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.010	0.00044	1	8260B	7/2/15 19:06	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0052	0.00038	1	8260B	7/2/15 19:06	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0052	0.00035	1	8260B	7/2/15 19:06	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00022	1	8260B	7/2/15 19:06	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00018	1	8260B	7/2/15 19:06	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0052	0.00022	1	8260B	7/2/15 19:06	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0052	0.00024	1	8260B	7/2/15 19:06	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0052	0.00020	1	8260B	7/2/15 19:06	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0052	0.00021	1	8260B	7/2/15 19:06	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 19:06	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.010	0.00048	1	8260B	7/2/15 19:06	MSC	P5G0040
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.052	0.00047	1	8260B	7/2/15 19:06	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.10	0.00047	1	8260B	7/2/15 19:06	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-38 2-4
Prism Sample ID: 5070005-12
Prism Work Order: 5070005
Time Collected: 06/29/15 19:55
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.052	0.00045	1	8260B	7/2/15 19:06	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0052	0.00029	1	8260B	7/2/15 19:06	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.010	0.00017	1	8260B	7/2/15 19:06	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.010	0.00017	1	8260B	7/2/15 19:06	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0052	0.00027	1	8260B	7/2/15 19:06	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 19:06	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0052	0.00022	1	8260B	7/2/15 19:06	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 19:06	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0052	0.00032	1	8260B	7/2/15 19:06	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0052	0.00018	1	8260B	7/2/15 19:06	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 19:06	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0052	0.00030	1	8260B	7/2/15 19:06	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0052	0.00031	1	8260B	7/2/15 19:06	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0052	0.00028	1	8260B	7/2/15 19:06	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0052	0.00034	1	8260B	7/2/15 19:06	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0052	0.00034	1	8260B	7/2/15 19:06	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.026	0.00072	1	8260B	7/2/15 19:06	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0052	0.00025	1	8260B	7/2/15 19:06	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.016	0.00098	1	8260B	7/2/15 19:06	MSC	P5G0040
<hr/>						Surrogate	Recovery	Control Limits	
						4-Bromofluorobenzene	119 %	70-130	
						Dibromofluoromethane	107 %	84-123	
						Toluene-d8	101 %	76-129	

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.1	0.20	100	MADEP VPH	7/6/15 23:01	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	5.1	0.47	100	MADEP VPH	7/6/15 23:01	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	5.1	0.044	100	MADEP VPH	7/6/15 23:01	ANG	P5G0058
<hr/>						Surrogate	Recovery	Control Limits	
						2,5-Dibromotoluene (PID)	149 %	70-130	SR
						2,5-Dibromotoluene (FID)	151 %	70-130	

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-39 0-2
Prism Sample ID: 5070005-13
Prism Work Order: 5070005
Time Collected: 06/29/15 19:10
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	14	1.0	1	MADEP EPH	7/8/15 7:31	ZRC	P5G0052
C19-C36 Aliphatics	2.3 J	mg/kg dry	14	1.3	1	MADEP EPH	7/8/15 7:31	ZRC	P5G0052
C11-C22 Aromatics	20	mg/kg dry	14	3.6	1	MADEP EPH	7/8/15 7:31	ZRC	P5G0052
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	62 %		40-140
						o-Terphenyl	66 %		40-140
						2-Fluorobiphenyl	72 %		40-140
						2-Bromonaphthalene	78 %		40-140
General Chemistry Parameters									
% Solids	71.5	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.46	0.072	1	8270D	7/6/15 22:17	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.46	0.070	1	8270D	7/6/15 22:17	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.46	0.065	1	8270D	7/6/15 22:17	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.46	0.068	1	8270D	7/6/15 22:17	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.46	0.089	1	8270D	7/6/15 22:17	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.46	0.087	1	8270D	7/6/15 22:17	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.46	0.089	1	8270D	7/6/15 22:17	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.46	0.071	1	8270D	7/6/15 22:17	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.46	0.065	1	8270D	7/6/15 22:17	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.46	0.056	1	8270D	7/6/15 22:17	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.46	0.061	1	8270D	7/6/15 22:17	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.46	0.067	1	8270D	7/6/15 22:17	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.46	0.065	1	8270D	7/6/15 22:17	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.46	0.074	1	8270D	7/6/15 22:17	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.46	0.059	1	8270D	7/6/15 22:17	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.46	0.084	1	8270D	7/6/15 22:17	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.46	0.091	1	8270D	7/6/15 22:17	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.46	0.057	1	8270D	7/6/15 22:17	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.46	0.069	1	8270D	7/6/15 22:17	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.46	0.079	1	8270D	7/6/15 22:17	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.46	0.065	1	8270D	7/6/15 22:17	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.46	0.056	1	8270D	7/6/15 22:17	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.46	0.060	1	8270D	7/6/15 22:17	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.46	0.071	1	8270D	7/6/15 22:17	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.46	0.063	1	8270D	7/6/15 22:17	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.46	0.067	1	8270D	7/6/15 22:17	JMV	P5G0053
Anthracene	BRL	mg/kg dry	0.46	0.074	1	8270D	7/6/15 22:17	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.46	0.061	1	8270D	7/6/15 22:17	JMV	P5G0053
Benzo(a)anthracene	0.15 J	mg/kg dry	0.46	0.060	1	8270D	7/6/15 22:17	JMV	P5G0053
Benzo(a)pyrene	0.14 J	mg/kg dry	0.46	0.050	1	8270D	7/6/15 22:17	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-39 0-2
Prism Sample ID: 5070005-13
Prism Work Order: 5070005
Time Collected: 06/29/15 19:10
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	0.21 J	mg/kg dry	0.46	0.054	1	8270D	7/6/15 22:17	JMV	P5G0053
Benzo(g,h,i)perylene	BRL	mg/kg dry	0.46	0.051	1	8270D	7/6/15 22:17	JMV	P5G0053
Benzo(k)fluoranthene	BRL	mg/kg dry	0.46	0.061	1	8270D	7/6/15 22:17	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.46	0.039	1	8270D	7/6/15 22:17	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.46	0.061	1	8270D	7/6/15 22:17	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.46	0.080	1	8270D	7/6/15 22:17	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.46	0.065	1	8270D	7/6/15 22:17	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.46	0.079	1	8270D	7/6/15 22:17	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.46	0.069	1	8270D	7/6/15 22:17	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.46	0.066	1	8270D	7/6/15 22:17	JMV	P5G0053
Chrysene	0.17 J	mg/kg dry	0.46	0.058	1	8270D	7/6/15 22:17	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.46	0.056	1	8270D	7/6/15 22:17	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.46	0.070	1	8270D	7/6/15 22:17	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.46	0.064	1	8270D	7/6/15 22:17	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.46	0.061	1	8270D	7/6/15 22:17	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.46	0.066	1	8270D	7/6/15 22:17	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.46	0.057	1	8270D	7/6/15 22:17	JMV	P5G0053
Fluoranthene	0.33 J	mg/kg dry	0.46	0.059	1	8270D	7/6/15 22:17	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.46	0.066	1	8270D	7/6/15 22:17	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.46	0.073	1	8270D	7/6/15 22:17	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.46	0.083	1	8270D	7/6/15 22:17	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.46	0.082	1	8270D	7/6/15 22:17	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.46	0.077	1	8270D	7/6/15 22:17	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	BRL	mg/kg dry	0.46	0.053	1	8270D	7/6/15 22:17	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.46	0.063	1	8270D	7/6/15 22:17	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.46	0.074	1	8270D	7/6/15 22:17	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.46	0.066	1	8270D	7/6/15 22:17	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.46	0.073	1	8270D	7/6/15 22:17	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.46	0.070	1	8270D	7/6/15 22:17	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.46	0.055	1	8270D	7/6/15 22:17	JMV	P5G0053
Phenanthrene	0.14 J	mg/kg dry	0.46	0.060	1	8270D	7/6/15 22:17	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.46	0.068	1	8270D	7/6/15 22:17	JMV	P5G0053
Pyrene	0.24 J	mg/kg dry	0.46	0.061	1	8270D	7/6/15 22:17	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	106 %	39-132
2-Fluorobiphenyl	105 %	44-115
2-Fluorophenol	96 %	35-115
Nitrobenzene-d5	95 %	37-122
Phenol-d5	100 %	34-121
Terphenyl-d14	94 %	54-127

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0060	0.00049	1	8260B	7/2/15 19:37	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0060	0.00029	1	8260B	7/2/15 19:37	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-39 0-2
Prism Sample ID: 5070005-13
Prism Work Order: 5070005
Time Collected: 06/29/15 19:10
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0060	0.00041	1	8260B	7/2/15 19:37	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0060	0.00053	1	8260B	7/2/15 19:37	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0060	0.00017	1	8260B	7/2/15 19:37	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00027	1	8260B	7/2/15 19:37	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00033	1	8260B	7/2/15 19:37	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0060	0.00034	1	8260B	7/2/15 19:37	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0060	0.00077	1	8260B	7/2/15 19:37	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0060	0.00045	1	8260B	7/2/15 19:37	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0060	0.00046	1	8260B	7/2/15 19:37	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0060	0.00024	1	8260B	7/2/15 19:37	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00028	1	8260B	7/2/15 19:37	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0060	0.00036	1	8260B	7/2/15 19:37	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0060	0.00037	1	8260B	7/2/15 19:37	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0060	0.00045	1	8260B	7/2/15 19:37	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00040	1	8260B	7/2/15 19:37	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0060	0.00030	1	8260B	7/2/15 19:37	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0060	0.00024	1	8260B	7/2/15 19:37	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0060	0.00029	1	8260B	7/2/15 19:37	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0060	0.00031	1	8260B	7/2/15 19:37	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0060	0.00036	1	8260B	7/2/15 19:37	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0060	0.00029	1	8260B	7/2/15 19:37	MSC	P5G0040
Acetone	0.11	mg/kg dry	0.060	0.0015	1	8260B	7/2/15 19:37	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0036	0.00035	1	8260B	7/2/15 19:37	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0060	0.00050	1	8260B	7/2/15 19:37	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0060	0.00033	1	8260B	7/2/15 19:37	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0060	0.00033	1	8260B	7/2/15 19:37	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0060	0.00068	1	8260B	7/2/15 19:37	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.012	0.00074	1	8260B	7/2/15 19:37	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0060	0.00030	1	8260B	7/2/15 19:37	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0060	0.00032	1	8260B	7/2/15 19:37	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.012	0.00050	1	8260B	7/2/15 19:37	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0060	0.00043	1	8260B	7/2/15 19:37	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0060	0.00040	1	8260B	7/2/15 19:37	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00026	1	8260B	7/2/15 19:37	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00020	1	8260B	7/2/15 19:37	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0060	0.00025	1	8260B	7/2/15 19:37	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0060	0.00027	1	8260B	7/2/15 19:37	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0060	0.00023	1	8260B	7/2/15 19:37	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0060	0.00024	1	8260B	7/2/15 19:37	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0060	0.00036	1	8260B	7/2/15 19:37	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.012	0.00055	1	8260B	7/2/15 19:37	MSC	P5G0040
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.060	0.00054	1	8260B	7/2/15 19:37	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.12	0.00054	1	8260B	7/2/15 19:37	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-39 0-2
Prism Sample ID: 5070005-13
Prism Work Order: 5070005
Time Collected: 06/29/15 19:10
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.060	0.00051	1	8260B	7/2/15 19:37	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0060	0.00034	1	8260B	7/2/15 19:37	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.012	0.00019	1	8260B	7/2/15 19:37	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.012	0.00019	1	8260B	7/2/15 19:37	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0060	0.00031	1	8260B	7/2/15 19:37	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0060	0.00036	1	8260B	7/2/15 19:37	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0060	0.00025	1	8260B	7/2/15 19:37	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0060	0.00029	1	8260B	7/2/15 19:37	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0060	0.00036	1	8260B	7/2/15 19:37	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0060	0.00020	1	8260B	7/2/15 19:37	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0060	0.00029	1	8260B	7/2/15 19:37	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0060	0.00034	1	8260B	7/2/15 19:37	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0060	0.00036	1	8260B	7/2/15 19:37	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0060	0.00032	1	8260B	7/2/15 19:37	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0060	0.00039	1	8260B	7/2/15 19:37	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0060	0.00039	1	8260B	7/2/15 19:37	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.030	0.00082	1	8260B	7/2/15 19:37	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0060	0.00029	1	8260B	7/2/15 19:37	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.018	0.0011	1	8260B	7/2/15 19:37	MSC	P5G0040
<hr/>						Surrogate	Recovery	Control Limits	
						4-Bromofluorobenzene	116 %	70-130	
						Dibromofluoromethane	113 %	84-123	
						Toluene-d8	102 %	76-129	

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.7	0.22	100	MADEP VPH	7/7/15 8:15	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	5.7	0.52	100	MADEP VPH	7/7/15 8:15	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	5.7	0.049	100	MADEP VPH	7/7/15 8:15	ANG	P5G0058
<hr/>						Surrogate	Recovery	Control Limits	
						2,5-Dibromotoluene (PID)	130 %	70-130	
						2,5-Dibromotoluene (FID)	131 %	70-130	SR

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-39 2-4
Prism Sample ID: 5070005-14
Prism Work Order: 5070005
Time Collected: 06/29/15 20:00
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	mg/kg dry	13	0.95	1	MADEP EPH	7/8/15 8:07	ZRC	P5G0052
C19-C36 Aliphatics	BRL	mg/kg dry	13	1.3	1	MADEP EPH	7/8/15 8:07	ZRC	P5G0052
C11-C22 Aromatics	BRL	mg/kg dry	13	3.4	1	MADEP EPH	7/8/15 8:07	ZRC	P5G0052
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	59 %		40-140
						o-Terphenyl	62 %		40-140
						2-Fluorobiphenyl	69 %		40-140
						2-Bromonaphthalene	75 %		40-140
General Chemistry Parameters									
% Solids	75.8	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.44	0.068	1	8270D	7/6/15 22:38	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.44	0.066	1	8270D	7/6/15 22:38	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.44	0.061	1	8270D	7/6/15 22:38	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.44	0.064	1	8270D	7/6/15 22:38	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.44	0.084	1	8270D	7/6/15 22:38	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.44	0.082	1	8270D	7/6/15 22:38	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.44	0.084	1	8270D	7/6/15 22:38	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.44	0.067	1	8270D	7/6/15 22:38	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.44	0.061	1	8270D	7/6/15 22:38	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.44	0.053	1	8270D	7/6/15 22:38	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 22:38	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.44	0.063	1	8270D	7/6/15 22:38	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 22:38	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.44	0.070	1	8270D	7/6/15 22:38	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.44	0.056	1	8270D	7/6/15 22:38	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.44	0.079	1	8270D	7/6/15 22:38	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.44	0.086	1	8270D	7/6/15 22:38	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.44	0.054	1	8270D	7/6/15 22:38	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.44	0.065	1	8270D	7/6/15 22:38	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.44	0.075	1	8270D	7/6/15 22:38	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.44	0.061	1	8270D	7/6/15 22:38	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.44	0.052	1	8270D	7/6/15 22:38	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.44	0.057	1	8270D	7/6/15 22:38	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.44	0.067	1	8270D	7/6/15 22:38	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.44	0.059	1	8270D	7/6/15 22:38	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.44	0.063	1	8270D	7/6/15 22:38	JMV	P5G0053
Anthracene	BRL	mg/kg dry	0.44	0.070	1	8270D	7/6/15 22:38	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 22:38	JMV	P5G0053
Benzo(a)anthracene	0.19 J	mg/kg dry	0.44	0.057	1	8270D	7/6/15 22:38	JMV	P5G0053
Benzo(a)pyrene	0.18 J	mg/kg dry	0.44	0.047	1	8270D	7/6/15 22:38	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-39 2-4
Prism Sample ID: 5070005-14
Prism Work Order: 5070005
Time Collected: 06/29/15 20:00
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(b)fluoranthene	0.26 J	mg/kg dry	0.44	0.051	1	8270D	7/6/15 22:38	JMV	P5G0053
Benzo(g,h,i)perylene	0.12 J	mg/kg dry	0.44	0.048	1	8270D	7/6/15 22:38	JMV	P5G0053
Benzo(k)fluoranthene	BRL	mg/kg dry	0.44	0.057	1	8270D	7/6/15 22:38	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.44	0.037	1	8270D	7/6/15 22:38	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.44	0.057	1	8270D	7/6/15 22:38	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.44	0.076	1	8270D	7/6/15 22:38	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.44	0.062	1	8270D	7/6/15 22:38	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.44	0.074	1	8270D	7/6/15 22:38	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.44	0.065	1	8270D	7/6/15 22:38	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 22:38	JMV	P5G0053
Chrysene	0.21 J	mg/kg dry	0.44	0.055	1	8270D	7/6/15 22:38	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.44	0.053	1	8270D	7/6/15 22:38	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.44	0.066	1	8270D	7/6/15 22:38	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.44	0.060	1	8270D	7/6/15 22:38	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.44	0.058	1	8270D	7/6/15 22:38	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 22:38	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.44	0.054	1	8270D	7/6/15 22:38	JMV	P5G0053
Fluoranthene	0.48	mg/kg dry	0.44	0.056	1	8270D	7/6/15 22:38	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.44	0.063	1	8270D	7/6/15 22:38	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.44	0.069	1	8270D	7/6/15 22:38	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.44	0.078	1	8270D	7/6/15 22:38	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.44	0.078	1	8270D	7/6/15 22:38	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.44	0.073	1	8270D	7/6/15 22:38	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	0.13 J	mg/kg dry	0.44	0.050	1	8270D	7/6/15 22:38	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.44	0.059	1	8270D	7/6/15 22:38	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.44	0.070	1	8270D	7/6/15 22:38	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.44	0.062	1	8270D	7/6/15 22:38	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.44	0.069	1	8270D	7/6/15 22:38	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.44	0.066	1	8270D	7/6/15 22:38	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.44	0.051	1	8270D	7/6/15 22:38	JMV	P5G0053
Phenanthrene	0.25 J	mg/kg dry	0.44	0.057	1	8270D	7/6/15 22:38	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.44	0.064	1	8270D	7/6/15 22:38	JMV	P5G0053
Pyrene	0.34 J	mg/kg dry	0.44	0.058	1	8270D	7/6/15 22:38	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	102 %	39-132
2-Fluorobiphenyl	105 %	44-115
2-Fluorophenol	94 %	35-115
Nitrobenzene-d5	94 %	37-122
Phenol-d5	97 %	34-121
Terphenyl-d14	92 %	54-127

Volatile Organic Compounds by GC/MS

1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00045	1	8260B	7/2/15 20:09	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0055	0.00027	1	8260B	7/2/15 20:09	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-39 2-4
Prism Sample ID: 5070005-14
Prism Work Order: 5070005
Time Collected: 06/29/15 20:00
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B	7/2/15 20:09	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0055	0.00049	1	8260B	7/2/15 20:09	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0055	0.00015	1	8260B	7/2/15 20:09	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00024	1	8260B	7/2/15 20:09	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00030	1	8260B	7/2/15 20:09	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00031	1	8260B	7/2/15 20:09	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0055	0.00070	1	8260B	7/2/15 20:09	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0055	0.00041	1	8260B	7/2/15 20:09	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00042	1	8260B	7/2/15 20:09	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0055	0.00022	1	8260B	7/2/15 20:09	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	7/2/15 20:09	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0055	0.00033	1	8260B	7/2/15 20:09	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00034	1	8260B	7/2/15 20:09	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0055	0.00042	1	8260B	7/2/15 20:09	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00036	1	8260B	7/2/15 20:09	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0055	0.00028	1	8260B	7/2/15 20:09	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0055	0.00022	1	8260B	7/2/15 20:09	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0055	0.00026	1	8260B	7/2/15 20:09	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00028	1	8260B	7/2/15 20:09	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	7/2/15 20:09	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0055	0.00027	1	8260B	7/2/15 20:09	MSC	P5G0040
Acetone	0.11	mg/kg dry	0.055	0.0013	1	8260B	7/2/15 20:09	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0033	0.00032	1	8260B	7/2/15 20:09	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0055	0.00046	1	8260B	7/2/15 20:09	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0055	0.00030	1	8260B	7/2/15 20:09	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0055	0.00031	1	8260B	7/2/15 20:09	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0055	0.00062	1	8260B	7/2/15 20:09	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.011	0.00068	1	8260B	7/2/15 20:09	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0055	0.00027	1	8260B	7/2/15 20:09	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	7/2/15 20:09	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.011	0.00046	1	8260B	7/2/15 20:09	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0055	0.00040	1	8260B	7/2/15 20:09	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0055	0.00037	1	8260B	7/2/15 20:09	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00023	1	8260B	7/2/15 20:09	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00018	1	8260B	7/2/15 20:09	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0055	0.00023	1	8260B	7/2/15 20:09	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0055	0.00025	1	8260B	7/2/15 20:09	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0055	0.00021	1	8260B	7/2/15 20:09	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0055	0.00022	1	8260B	7/2/15 20:09	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0055	0.00033	1	8260B	7/2/15 20:09	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.011	0.00051	1	8260B	7/2/15 20:09	MSC	P5G0040
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.055	0.00050	1	8260B	7/2/15 20:09	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.11	0.00050	1	8260B	7/2/15 20:09	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-39 2-4
Prism Sample ID: 5070005-14
Prism Work Order: 5070005
Time Collected: 06/29/15 20:00
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.055	0.00047	1	8260B	7/2/15 20:09	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0055	0.00031	1	8260B	7/2/15 20:09	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.011	0.00018	1	8260B	7/2/15 20:09	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.011	0.00017	1	8260B	7/2/15 20:09	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0055	0.00028	1	8260B	7/2/15 20:09	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	7/2/15 20:09	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0055	0.00023	1	8260B	7/2/15 20:09	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0055	0.00027	1	8260B	7/2/15 20:09	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	7/2/15 20:09	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0055	0.00019	1	8260B	7/2/15 20:09	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0055	0.00026	1	8260B	7/2/15 20:09	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0055	0.00032	1	8260B	7/2/15 20:09	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0055	0.00033	1	8260B	7/2/15 20:09	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0055	0.00029	1	8260B	7/2/15 20:09	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0055	0.00036	1	8260B	7/2/15 20:09	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0055	0.00036	1	8260B	7/2/15 20:09	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.027	0.00075	1	8260B	7/2/15 20:09	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0055	0.00027	1	8260B	7/2/15 20:09	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.016	0.0010	1	8260B	7/2/15 20:09	MSC	P5G0040

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	120 %	70-130
Dibromofluoromethane	107 %	84-123
Toluene-d8	101 %	76-129

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	5.3	0.20	100	MADEP VPH	7/7/15 8:46	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	5.3	0.48	100	MADEP VPH	7/7/15 8:46	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	5.3	0.045	100	MADEP VPH	7/7/15 8:46	ANG	P5G0058

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	150 %	70-130 SR
2,5-Dibromotoluene (FID)	152 %	70-130

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-40 0-2
Prism Sample ID: 5070005-15
Prism Work Order: 5070005
Time Collected: 06/29/15 19:30
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	1.3 J	mg/kg dry	11	0.82	1	MADEP EPH	7/8/15 8:44	ZRC	P5G0052
C19-C36 Aliphatics	2.7 J	mg/kg dry	11	1.1	1	MADEP EPH	7/8/15 8:44	ZRC	P5G0052
C11-C22 Aromatics	17	mg/kg dry	11	2.9	1	MADEP EPH	7/8/15 8:44	ZRC	P5G0052
				Surrogate		Recovery		Control Limits	
				1-Chlorooctadecane		66 %		40-140	
				o-Terphenyl		68 %		40-140	
				2-Fluorobiphenyl		69 %		40-140	
				2-Bromonaphthalene		77 %		40-140	
General Chemistry Parameters									
% Solids	87.4	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.38	0.059	1	8270D	7/6/15 22:59	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.38	0.057	1	8270D	7/6/15 22:59	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.38	0.053	1	8270D	7/6/15 22:59	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.38	0.055	1	8270D	7/6/15 22:59	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.38	0.073	1	8270D	7/6/15 22:59	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.38	0.071	1	8270D	7/6/15 22:59	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.38	0.073	1	8270D	7/6/15 22:59	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.38	0.058	1	8270D	7/6/15 22:59	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.38	0.053	1	8270D	7/6/15 22:59	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.38	0.046	1	8270D	7/6/15 22:59	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.38	0.050	1	8270D	7/6/15 22:59	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.38	0.055	1	8270D	7/6/15 22:59	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.38	0.054	1	8270D	7/6/15 22:59	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.38	0.060	1	8270D	7/6/15 22:59	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.38	0.048	1	8270D	7/6/15 22:59	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.38	0.069	1	8270D	7/6/15 22:59	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.38	0.075	1	8270D	7/6/15 22:59	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.38	0.047	1	8270D	7/6/15 22:59	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.38	0.057	1	8270D	7/6/15 22:59	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.38	0.065	1	8270D	7/6/15 22:59	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.38	0.053	1	8270D	7/6/15 22:59	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.38	0.045	1	8270D	7/6/15 22:59	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.38	0.049	1	8270D	7/6/15 22:59	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.38	0.058	1	8270D	7/6/15 22:59	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.38	0.051	1	8270D	7/6/15 22:59	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.38	0.055	1	8270D	7/6/15 22:59	JMV	P5G0053
Anthracene	0.16 J	mg/kg dry	0.38	0.061	1	8270D	7/6/15 22:59	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.38	0.050	1	8270D	7/6/15 22:59	JMV	P5G0053
Benzo(a)anthracene	0.60	mg/kg dry	0.38	0.049	1	8270D	7/6/15 22:59	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-40 0-2
Prism Sample ID: 5070005-15
Prism Work Order: 5070005
Time Collected: 06/29/15 19:30
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)pyrene	0.59	mg/kg dry	0.38	0.041	1	8270D	7/6/15 22:59	JMV	P5G0053
Benzo(b)fluoranthene	0.81	mg/kg dry	0.38	0.044	1	8270D	7/6/15 22:59	JMV	P5G0053
Benzo(g,h,i)perylene	0.36 J	mg/kg dry	0.38	0.041	1	8270D	7/6/15 22:59	JMV	P5G0053
Benzo(k)fluoranthene	0.32 J	mg/kg dry	0.38	0.050	1	8270D	7/6/15 22:59	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.38	0.032	1	8270D	7/6/15 22:59	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.38	0.050	1	8270D	7/6/15 22:59	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.38	0.066	1	8270D	7/6/15 22:59	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.38	0.053	1	8270D	7/6/15 22:59	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.38	0.065	1	8270D	7/6/15 22:59	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.38	0.056	1	8270D	7/6/15 22:59	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.38	0.054	1	8270D	7/6/15 22:59	JMV	P5G0053
Chrysene	0.63	mg/kg dry	0.38	0.048	1	8270D	7/6/15 22:59	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.38	0.046	1	8270D	7/6/15 22:59	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.38	0.057	1	8270D	7/6/15 22:59	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.38	0.052	1	8270D	7/6/15 22:59	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.38	0.050	1	8270D	7/6/15 22:59	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.38	0.054	1	8270D	7/6/15 22:59	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.38	0.046	1	8270D	7/6/15 22:59	JMV	P5G0053
Fluoranthene	1.4	mg/kg dry	0.38	0.048	1	8270D	7/6/15 22:59	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.38	0.054	1	8270D	7/6/15 22:59	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.38	0.060	1	8270D	7/6/15 22:59	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.38	0.068	1	8270D	7/6/15 22:59	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.38	0.067	1	8270D	7/6/15 22:59	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.38	0.063	1	8270D	7/6/15 22:59	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	0.39	mg/kg dry	0.38	0.043	1	8270D	7/6/15 22:59	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.38	0.051	1	8270D	7/6/15 22:59	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.38	0.061	1	8270D	7/6/15 22:59	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.38	0.054	1	8270D	7/6/15 22:59	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.38	0.060	1	8270D	7/6/15 22:59	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.38	0.057	1	8270D	7/6/15 22:59	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.38	0.045	1	8270D	7/6/15 22:59	JMV	P5G0053
Phenanthrene	0.73	mg/kg dry	0.38	0.049	1	8270D	7/6/15 22:59	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.38	0.056	1	8270D	7/6/15 22:59	JMV	P5G0053
Pyrene	1.1	mg/kg dry	0.38	0.050	1	8270D	7/6/15 22:59	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	104 %	39-132
2-Fluorobiphenyl	108 %	44-115
2-Fluorophenol	98 %	35-115
Nitrobenzene-d5	100 %	37-122
Phenol-d5	102 %	34-121
Terphenyl-d14	97 %	54-127

Volatile Organic Compounds by GC/MS

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-40 0-2
Prism Sample ID: 5070005-15
Prism Work Order: 5070005
Time Collected: 06/29/15 19:30
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0047	0.00038	1	8260B	7/2/15 20:40	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0047	0.00023	1	8260B	7/2/15 20:40	MSC	P5G0040
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0047	0.00031	1	8260B	7/2/15 20:40	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0047	0.00041	1	8260B	7/2/15 20:40	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0047	0.00013	1	8260B	7/2/15 20:40	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0047	0.00021	1	8260B	7/2/15 20:40	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0047	0.00026	1	8260B	7/2/15 20:40	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0047	0.00026	1	8260B	7/2/15 20:40	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0047	0.00059	1	8260B	7/2/15 20:40	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0047	0.00035	1	8260B	7/2/15 20:40	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0047	0.00036	1	8260B	7/2/15 20:40	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0047	0.00019	1	8260B	7/2/15 20:40	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0047	0.00022	1	8260B	7/2/15 20:40	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0047	0.00028	1	8260B	7/2/15 20:40	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0047	0.00029	1	8260B	7/2/15 20:40	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0047	0.00035	1	8260B	7/2/15 20:40	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0047	0.00031	1	8260B	7/2/15 20:40	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0047	0.00023	1	8260B	7/2/15 20:40	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0047	0.00018	1	8260B	7/2/15 20:40	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0047	0.00022	1	8260B	7/2/15 20:40	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0047	0.00024	1	8260B	7/2/15 20:40	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	7/2/15 20:40	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0047	0.00022	1	8260B	7/2/15 20:40	MSC	P5G0040
Acetone	0.097	mg/kg dry	0.047	0.0011	1	8260B	7/2/15 20:40	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0028	0.00027	1	8260B	7/2/15 20:40	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0047	0.00039	1	8260B	7/2/15 20:40	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0047	0.00026	1	8260B	7/2/15 20:40	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0047	0.00026	1	8260B	7/2/15 20:40	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0047	0.00053	1	8260B	7/2/15 20:40	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.0093	0.00058	1	8260B	7/2/15 20:40	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0047	0.00023	1	8260B	7/2/15 20:40	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0047	0.00025	1	8260B	7/2/15 20:40	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.0093	0.00039	1	8260B	7/2/15 20:40	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0047	0.00034	1	8260B	7/2/15 20:40	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0047	0.00031	1	8260B	7/2/15 20:40	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0047	0.00020	1	8260B	7/2/15 20:40	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0047	0.00016	1	8260B	7/2/15 20:40	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0047	0.00019	1	8260B	7/2/15 20:40	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0047	0.00021	1	8260B	7/2/15 20:40	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0047	0.00018	1	8260B	7/2/15 20:40	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0047	0.00019	1	8260B	7/2/15 20:40	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0047	0.00028	1	8260B	7/2/15 20:40	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.0093	0.00043	1	8260B	7/2/15 20:40	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-40 0-2
Prism Sample ID: 5070005-15
Prism Work Order: 5070005
Time Collected: 06/29/15 19:30
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.047	0.00042	1	8260B	7/2/15 20:40	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.093	0.00042	1	8260B	7/2/15 20:40	MSC	P5G0040
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.047	0.00040	1	8260B	7/2/15 20:40	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0047	0.00026	1	8260B	7/2/15 20:40	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0093	0.00015	1	8260B	7/2/15 20:40	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.0093	0.00015	1	8260B	7/2/15 20:40	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0047	0.00024	1	8260B	7/2/15 20:40	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	7/2/15 20:40	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0047	0.00019	1	8260B	7/2/15 20:40	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0047	0.00023	1	8260B	7/2/15 20:40	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	7/2/15 20:40	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0047	0.00016	1	8260B	7/2/15 20:40	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0047	0.00022	1	8260B	7/2/15 20:40	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0047	0.00027	1	8260B	7/2/15 20:40	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0047	0.00028	1	8260B	7/2/15 20:40	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0047	0.00025	1	8260B	7/2/15 20:40	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0047	0.00030	1	8260B	7/2/15 20:40	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0047	0.00030	1	8260B	7/2/15 20:40	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.023	0.00064	1	8260B	7/2/15 20:40	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0047	0.00023	1	8260B	7/2/15 20:40	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.014	0.00087	1	8260B	7/2/15 20:40	MSC	P5G0040

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	116 %	70-130
Dibromofluoromethane	104 %	84-123
Toluene-d8	102 %	76-129

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.6	0.18	100	MADEP VPH	7/7/15 9:18	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	4.6	0.42	100	MADEP VPH	7/7/15 9:18	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	4.6	0.040	100	MADEP VPH	7/7/15 9:18	ANG	P5G0058
Surrogate	Recovery	Control Limits							
2,5-Dibromotoluene (PID)	142 %	70-130	SF						
2,5-Dibromotoluene (FID)	144 %	70-130							

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-41 0-2
Prism Sample ID: 5070005-16
Prism Work Order: 5070005
Time Collected: 06/29/15 19:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	1.5 J	mg/kg dry	11	0.78	1	MADEP EPH	7/8/15 9:20	ZRC	P5G0052
C19-C36 Aliphatics	2.2 J	mg/kg dry	11	1.0	1	MADEP EPH	7/8/15 9:20	ZRC	P5G0052
C11-C22 Aromatics	20	mg/kg dry	11	2.8	1	MADEP EPH	7/8/15 9:20	ZRC	P5G0052
				Surrogate		Recovery		Control Limits	
				1-Chlorooctadecane		62 %		40-140	
				o-Terphenyl		72 %		40-140	
				2-Fluorobiphenyl		77 %		40-140	
				2-Bromonaphthalene		81 %		40-140	
General Chemistry Parameters									
% Solids	91.9	% by Weight	0.100	0.100	1	*SM2540 G	7/2/15 10:46	ARC	P5G0030
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.36	0.056	1	8270D	7/6/15 23:20	JMV	P5G0053
1,2-Dichlorobenzene	BRL	mg/kg dry	0.36	0.055	1	8270D	7/6/15 23:20	JMV	P5G0053
1,3-Dichlorobenzene	BRL	mg/kg dry	0.36	0.051	1	8270D	7/6/15 23:20	JMV	P5G0053
1,4-Dichlorobenzene	BRL	mg/kg dry	0.36	0.053	1	8270D	7/6/15 23:20	JMV	P5G0053
1-Methylnaphthalene	BRL	mg/kg dry	0.36	0.069	1	8270D	7/6/15 23:20	JMV	P5G0053
2,4,6-Trichlorophenol	BRL	mg/kg dry	0.36	0.067	1	8270D	7/6/15 23:20	JMV	P5G0053
2,4-Dichlorophenol	BRL	mg/kg dry	0.36	0.069	1	8270D	7/6/15 23:20	JMV	P5G0053
2,4-Dimethylphenol	BRL	mg/kg dry	0.36	0.055	1	8270D	7/6/15 23:20	JMV	P5G0053
2,4-Dinitrophenol	BRL	mg/kg dry	0.36	0.050	1	8270D	7/6/15 23:20	JMV	P5G0053
2,4-Dinitrotoluene	BRL	mg/kg dry	0.36	0.044	1	8270D	7/6/15 23:20	JMV	P5G0053
2,6-Dinitrotoluene	BRL	mg/kg dry	0.36	0.048	1	8270D	7/6/15 23:20	JMV	P5G0053
2-Chloronaphthalene	BRL	mg/kg dry	0.36	0.052	1	8270D	7/6/15 23:20	JMV	P5G0053
2-Chlorophenol	BRL	mg/kg dry	0.36	0.051	1	8270D	7/6/15 23:20	JMV	P5G0053
2-Methylnaphthalene	BRL	mg/kg dry	0.36	0.057	1	8270D	7/6/15 23:20	JMV	P5G0053
2-Methylphenol	BRL	mg/kg dry	0.36	0.046	1	8270D	7/6/15 23:20	JMV	P5G0053
2-Nitrophenol	BRL	mg/kg dry	0.36	0.065	1	8270D	7/6/15 23:20	JMV	P5G0053
3,3'-Dichlorobenzidine	BRL	mg/kg dry	0.36	0.071	1	8270D	7/6/15 23:20	JMV	P5G0053
3/4-Methylphenol	BRL	mg/kg dry	0.36	0.044	1	8270D	7/6/15 23:20	JMV	P5G0053
4,6-Dinitro-2-methylphenol	BRL	mg/kg dry	0.36	0.054	1	8270D	7/6/15 23:20	JMV	P5G0053
4-Bromophenyl phenyl ether	BRL	mg/kg dry	0.36	0.062	1	8270D	7/6/15 23:20	JMV	P5G0053
4-Chloro-3-methylphenol	BRL	mg/kg dry	0.36	0.050	1	8270D	7/6/15 23:20	JMV	P5G0053
4-Chloroaniline	BRL	mg/kg dry	0.36	0.043	1	8270D	7/6/15 23:20	JMV	P5G0053
4-Chlorophenyl phenyl ether	BRL	mg/kg dry	0.36	0.047	1	8270D	7/6/15 23:20	JMV	P5G0053
4-Nitrophenol	BRL	mg/kg dry	0.36	0.055	1	8270D	7/6/15 23:20	JMV	P5G0053
Acenaphthene	BRL	mg/kg dry	0.36	0.049	1	8270D	7/6/15 23:20	JMV	P5G0053
Acenaphthylene	BRL	mg/kg dry	0.36	0.052	1	8270D	7/6/15 23:20	JMV	P5G0053
Anthracene	0.16 J	mg/kg dry	0.36	0.058	1	8270D	7/6/15 23:20	JMV	P5G0053
Azobenzene	BRL	mg/kg dry	0.36	0.047	1	8270D	7/6/15 23:20	JMV	P5G0053
Benzo(a)anthracene	0.60	mg/kg dry	0.36	0.047	1	8270D	7/6/15 23:20	JMV	P5G0053

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-41 0-2
Prism Sample ID: 5070005-16
Prism Work Order: 5070005
Time Collected: 06/29/15 19:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)pyrene	0.58	mg/kg dry	0.36	0.039	1	8270D	7/6/15 23:20	JMV	P5G0053
Benzo(b)fluoranthene	0.82	mg/kg dry	0.36	0.042	1	8270D	7/6/15 23:20	JMV	P5G0053
Benzo(g,h,i)perylene	0.38	mg/kg dry	0.36	0.039	1	8270D	7/6/15 23:20	JMV	P5G0053
Benzo(k)fluoranthene	0.27 J	mg/kg dry	0.36	0.047	1	8270D	7/6/15 23:20	JMV	P5G0053
Benzoic Acid	BRL	mg/kg dry	0.36	0.030	1	8270D	7/6/15 23:20	JMV	P5G0053
Benzyl alcohol	BRL	mg/kg dry	0.36	0.047	1	8270D	7/6/15 23:20	JMV	P5G0053
bis(2-Chloroethoxy)methane	BRL	mg/kg dry	0.36	0.062	1	8270D	7/6/15 23:20	JMV	P5G0053
Bis(2-Chloroethyl)ether	BRL CCV	mg/kg dry	0.36	0.051	1	8270D	7/6/15 23:20	JMV	P5G0053
Bis(2-chloroisopropyl)ether	BRL	mg/kg dry	0.36	0.061	1	8270D	7/6/15 23:20	JMV	P5G0053
Bis(2-Ethylhexyl)phthalate	BRL	mg/kg dry	0.36	0.053	1	8270D	7/6/15 23:20	JMV	P5G0053
Butyl benzyl phthalate	BRL	mg/kg dry	0.36	0.051	1	8270D	7/6/15 23:20	JMV	P5G0053
Chrysene	0.67	mg/kg dry	0.36	0.045	1	8270D	7/6/15 23:20	JMV	P5G0053
Dibenzo(a,h)anthracene	BRL	mg/kg dry	0.36	0.044	1	8270D	7/6/15 23:20	JMV	P5G0053
Dibenzofuran	BRL	mg/kg dry	0.36	0.055	1	8270D	7/6/15 23:20	JMV	P5G0053
Diethyl phthalate	BRL	mg/kg dry	0.36	0.050	1	8270D	7/6/15 23:20	JMV	P5G0053
Dimethyl phthalate	BRL	mg/kg dry	0.36	0.047	1	8270D	7/6/15 23:20	JMV	P5G0053
Di-n-butyl phthalate	BRL	mg/kg dry	0.36	0.051	1	8270D	7/6/15 23:20	JMV	P5G0053
Di-n-octyl phthalate	BRL	mg/kg dry	0.36	0.044	1	8270D	7/6/15 23:20	JMV	P5G0053
Fluoranthene	1.4	mg/kg dry	0.36	0.046	1	8270D	7/6/15 23:20	JMV	P5G0053
Fluorene	BRL	mg/kg dry	0.36	0.052	1	8270D	7/6/15 23:20	JMV	P5G0053
Hexachlorobenzene	BRL	mg/kg dry	0.36	0.057	1	8270D	7/6/15 23:20	JMV	P5G0053
Hexachlorobutadiene	BRL	mg/kg dry	0.36	0.065	1	8270D	7/6/15 23:20	JMV	P5G0053
Hexachlorocyclopentadiene	BRL	mg/kg dry	0.36	0.064	1	8270D	7/6/15 23:20	JMV	P5G0053
Hexachloroethane	BRL	mg/kg dry	0.36	0.060	1	8270D	7/6/15 23:20	JMV	P5G0053
Indeno(1,2,3-cd)pyrene	0.39	mg/kg dry	0.36	0.041	1	8270D	7/6/15 23:20	JMV	P5G0053
Isophorone	BRL	mg/kg dry	0.36	0.049	1	8270D	7/6/15 23:20	JMV	P5G0053
Naphthalene	BRL	mg/kg dry	0.36	0.058	1	8270D	7/6/15 23:20	JMV	P5G0053
Nitrobenzene	BRL	mg/kg dry	0.36	0.051	1	8270D	7/6/15 23:20	JMV	P5G0053
N-Nitroso-di-n-propylamine	BRL	mg/kg dry	0.36	0.057	1	8270D	7/6/15 23:20	JMV	P5G0053
N-Nitrosodiphenylamine	BRL	mg/kg dry	0.36	0.055	1	8270D	7/6/15 23:20	JMV	P5G0053
Pentachlorophenol	BRL	mg/kg dry	0.36	0.042	1	8270D	7/6/15 23:20	JMV	P5G0053
Phenanthrene	0.83	mg/kg dry	0.36	0.047	1	8270D	7/6/15 23:20	JMV	P5G0053
Phenol	BRL	mg/kg dry	0.36	0.053	1	8270D	7/6/15 23:20	JMV	P5G0053
Pyrene	1.1	mg/kg dry	0.36	0.048	1	8270D	7/6/15 23:20	JMV	P5G0053

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	98 %	39-132
2-Fluorobiphenyl	107 %	44-115
2-Fluorophenol	94 %	35-115
Nitrobenzene-d5	96 %	37-122
Phenol-d5	98 %	34-121
Terphenyl-d14	95 %	54-127

Volatile Organic Compounds by GC/MS

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-41 0-2
Prism Sample ID: 5070005-16
Prism Work Order: 5070005
Time Collected: 06/29/15 19:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	mg/kg dry	0.0049	0.00040	1	8260B	7/2/15 21:11	MSC	P5G0040
1,1,1-Trichloroethane	BRL	mg/kg dry	0.0049	0.00024	1	8260B	7/2/15 21:11	MSC	P5G0040
1,1,2,2-Tetrachloroethane	BRL	mg/kg dry	0.0049	0.00033	1	8260B	7/2/15 21:11	MSC	P5G0040
1,1,2-Trichloroethane	BRL	mg/kg dry	0.0049	0.00044	1	8260B	7/2/15 21:11	MSC	P5G0040
1,1-Dichloroethane	BRL	mg/kg dry	0.0049	0.00014	1	8260B	7/2/15 21:11	MSC	P5G0040
1,1-Dichloroethylene	BRL	mg/kg dry	0.0049	0.00022	1	8260B	7/2/15 21:11	MSC	P5G0040
1,1-Dichloropropylene	BRL	mg/kg dry	0.0049	0.00027	1	8260B	7/2/15 21:11	MSC	P5G0040
1,2,3-Trichlorobenzene	BRL	mg/kg dry	0.0049	0.00028	1	8260B	7/2/15 21:11	MSC	P5G0040
1,2,3-Trichloropropane	BRL	mg/kg dry	0.0049	0.00063	1	8260B	7/2/15 21:11	MSC	P5G0040
1,2,4-Trichlorobenzene	BRL	mg/kg dry	0.0049	0.00037	1	8260B	7/2/15 21:11	MSC	P5G0040
1,2,4-Trimethylbenzene	BRL	mg/kg dry	0.0049	0.00038	1	8260B	7/2/15 21:11	MSC	P5G0040
1,2-Dibromoethane	BRL	mg/kg dry	0.0049	0.00020	1	8260B	7/2/15 21:11	MSC	P5G0040
1,2-Dichlorobenzene	BRL	mg/kg dry	0.0049	0.00023	1	8260B	7/2/15 21:11	MSC	P5G0040
1,2-Dichloroethane	BRL	mg/kg dry	0.0049	0.00029	1	8260B	7/2/15 21:11	MSC	P5G0040
1,2-Dichloropropane	BRL	mg/kg dry	0.0049	0.00030	1	8260B	7/2/15 21:11	MSC	P5G0040
1,3,5-Trimethylbenzene	BRL	mg/kg dry	0.0049	0.00037	1	8260B	7/2/15 21:11	MSC	P5G0040
1,3-Dichlorobenzene	BRL	mg/kg dry	0.0049	0.00033	1	8260B	7/2/15 21:11	MSC	P5G0040
1,3-Dichloropropane	BRL	mg/kg dry	0.0049	0.00025	1	8260B	7/2/15 21:11	MSC	P5G0040
1,4-Dichlorobenzene	BRL	mg/kg dry	0.0049	0.00019	1	8260B	7/2/15 21:11	MSC	P5G0040
2,2-Dichloropropane	BRL	mg/kg dry	0.0049	0.00023	1	8260B	7/2/15 21:11	MSC	P5G0040
2-Chlorotoluene	BRL	mg/kg dry	0.0049	0.00025	1	8260B	7/2/15 21:11	MSC	P5G0040
4-Chlorotoluene	BRL	mg/kg dry	0.0049	0.00029	1	8260B	7/2/15 21:11	MSC	P5G0040
4-Isopropyltoluene	BRL	mg/kg dry	0.0049	0.00024	1	8260B	7/2/15 21:11	MSC	P5G0040
Acetone	0.10	mg/kg dry	0.049	0.0012	1	8260B	7/2/15 21:11	MSC	P5G0040
Benzene	BRL	mg/kg dry	0.0030	0.00029	1	8260B	7/2/15 21:11	MSC	P5G0040
Bromobenzene	BRL	mg/kg dry	0.0049	0.00041	1	8260B	7/2/15 21:11	MSC	P5G0040
Bromochloromethane	BRL	mg/kg dry	0.0049	0.00027	1	8260B	7/2/15 21:11	MSC	P5G0040
Bromodichloromethane	BRL	mg/kg dry	0.0049	0.00027	1	8260B	7/2/15 21:11	MSC	P5G0040
Bromoform	BRL	mg/kg dry	0.0049	0.00056	1	8260B	7/2/15 21:11	MSC	P5G0040
Bromomethane	BRL	mg/kg dry	0.0098	0.00061	1	8260B	7/2/15 21:11	MSC	P5G0040
Carbon Tetrachloride	BRL	mg/kg dry	0.0049	0.00024	1	8260B	7/2/15 21:11	MSC	P5G0040
Chlorobenzene	BRL	mg/kg dry	0.0049	0.00026	1	8260B	7/2/15 21:11	MSC	P5G0040
Chloroethane	BRL	mg/kg dry	0.0098	0.00041	1	8260B	7/2/15 21:11	MSC	P5G0040
Chloroform	BRL	mg/kg dry	0.0049	0.00036	1	8260B	7/2/15 21:11	MSC	P5G0040
Chloromethane	BRL	mg/kg dry	0.0049	0.00033	1	8260B	7/2/15 21:11	MSC	P5G0040
cis-1,2-Dichloroethylene	BRL	mg/kg dry	0.0049	0.00021	1	8260B	7/2/15 21:11	MSC	P5G0040
cis-1,3-Dichloropropylene	BRL	mg/kg dry	0.0049	0.00017	1	8260B	7/2/15 21:11	MSC	P5G0040
Dibromochloromethane	BRL	mg/kg dry	0.0049	0.00020	1	8260B	7/2/15 21:11	MSC	P5G0040
Dichlorodifluoromethane	BRL	mg/kg dry	0.0049	0.00022	1	8260B	7/2/15 21:11	MSC	P5G0040
Ethylbenzene	BRL	mg/kg dry	0.0049	0.00019	1	8260B	7/2/15 21:11	MSC	P5G0040
Isopropyl Ether	BRL	mg/kg dry	0.0049	0.00020	1	8260B	7/2/15 21:11	MSC	P5G0040
Isopropylbenzene (Cumene)	BRL	mg/kg dry	0.0049	0.00029	1	8260B	7/2/15 21:11	MSC	P5G0040
m,p-Xylenes	BRL	mg/kg dry	0.0098	0.00045	1	8260B	7/2/15 21:11	MSC	P5G0040

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Solid

Client Sample ID: SB-41 0-2
Prism Sample ID: 5070005-16
Prism Work Order: 5070005
Time Collected: 06/29/15 19:40
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Methyl Butyl Ketone (2-Hexanone)	BRL	mg/kg dry	0.049	0.00044	1	8260B	7/2/15 21:11	MSC	P5G0040
Methyl Ethyl Ketone (2-Butanone)	BRL	mg/kg dry	0.098	0.00044	1	8260B	7/2/15 21:11	MSC	P5G0040
Methyl Isobutyl Ketone	BRL	mg/kg dry	0.049	0.00042	1	8260B	7/2/15 21:11	MSC	P5G0040
Methylene Chloride	BRL	mg/kg dry	0.0049	0.00028	1	8260B	7/2/15 21:11	MSC	P5G0040
Methyl-tert-Butyl Ether	BRL	mg/kg dry	0.0098	0.00016	1	8260B	7/2/15 21:11	MSC	P5G0040
Naphthalene	BRL	mg/kg dry	0.0098	0.00016	1	8260B	7/2/15 21:11	MSC	P5G0040
n-Butylbenzene	BRL	mg/kg dry	0.0049	0.00025	1	8260B	7/2/15 21:11	MSC	P5G0040
n-Propylbenzene	BRL	mg/kg dry	0.0049	0.00029	1	8260B	7/2/15 21:11	MSC	P5G0040
o-Xylene	BRL	mg/kg dry	0.0049	0.00020	1	8260B	7/2/15 21:11	MSC	P5G0040
sec-Butylbenzene	BRL	mg/kg dry	0.0049	0.00024	1	8260B	7/2/15 21:11	MSC	P5G0040
Styrene	BRL	mg/kg dry	0.0049	0.00030	1	8260B	7/2/15 21:11	MSC	P5G0040
tert-Butylbenzene	BRL	mg/kg dry	0.0049	0.00017	1	8260B	7/2/15 21:11	MSC	P5G0040
Tetrachloroethylene	BRL	mg/kg dry	0.0049	0.00023	1	8260B	7/2/15 21:11	MSC	P5G0040
Toluene	BRL	mg/kg dry	0.0049	0.00028	1	8260B	7/2/15 21:11	MSC	P5G0040
trans-1,2-Dichloroethylene	BRL	mg/kg dry	0.0049	0.00029	1	8260B	7/2/15 21:11	MSC	P5G0040
trans-1,3-Dichloropropylene	BRL	mg/kg dry	0.0049	0.00026	1	8260B	7/2/15 21:11	MSC	P5G0040
Trichloroethylene	BRL	mg/kg dry	0.0049	0.00032	1	8260B	7/2/15 21:11	MSC	P5G0040
Trichlorofluoromethane	BRL	mg/kg dry	0.0049	0.00032	1	8260B	7/2/15 21:11	MSC	P5G0040
Vinyl acetate	BRL	mg/kg dry	0.025	0.00067	1	8260B	7/2/15 21:11	MSC	P5G0040
Vinyl chloride	BRL	mg/kg dry	0.0049	0.00024	1	8260B	7/2/15 21:11	MSC	P5G0040
Xylenes, total	BRL	mg/kg dry	0.015	0.00092	1	8260B	7/2/15 21:11	MSC	P5G0040

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	125 %	70-130
Dibromofluoromethane	109 %	84-123
Toluene-d8	102 %	76-129

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	mg/kg dry	4.8	0.18	100	MADEP VPH	7/7/15 9:49	ANG	P5G0058
C9-C12 Aliphatics	BRL	mg/kg dry	4.8	0.44	100	MADEP VPH	7/7/15 9:49	ANG	P5G0058
C9-C10 Aromatics	BRL	mg/kg dry	4.8	0.042	100	MADEP VPH	7/7/15 9:49	ANG	P5G0058

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	146 %	70-130 SR
2,5-Dibromotoluene (FID)	148 %	70-130

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-32 GW
Prism Sample ID: 5070005-17
Prism Work Order: 5070005
Time Collected: 06/29/15 09:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	9.3	1	MADEP EPH	7/7/15 15:43	ZRC	P5G0047
C19-C36 Aliphatics	BRL	ug/L	100	28	1	MADEP EPH	7/7/15 15:43	ZRC	P5G0047
C11-C22 Aromatics	BRL	ug/L	100	13	1	MADEP EPH	7/7/15 15:43	ZRC	P5G0047
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	67 %		40-140
						o-Terphenyl	64 %		40-140
						2-Fluorobiphenyl	72 %		40-140
						2-Bromonaphthalene	75 %		40-140
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:32	JMV	P5G0003
1,2-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:32	JMV	P5G0003
1,3-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:32	JMV	P5G0003
1,4-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:32	JMV	P5G0003
1-Methylnaphthalene	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:32	JMV	P5G0003
2,4,5-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	7/2/15 16:32	JMV	P5G0003
2,4,6-Trichlorophenol	BRL	ug/L	10	2.6	1	8270D	7/2/15 16:32	JMV	P5G0003
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:32	JMV	P5G0003
2,4-Dimethylphenol	BRL	ug/L	10	2.3	1	8270D	7/2/15 16:32	JMV	P5G0003
2,4-Dinitrophenol	BRL	ug/L	10	3.7	1	8270D	7/2/15 16:32	JMV	P5G0003
2,4-Dinitrotoluene	BRL	ug/L	10	1.9	1	8270D	7/2/15 16:32	JMV	P5G0003
2,6-Dinitrotoluene	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:32	JMV	P5G0003
2-Chloronaphthalene	BRL	ug/L	10	3.4	1	8270D	7/2/15 16:32	JMV	P5G0003
2-Chlorophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:32	JMV	P5G0003
2-Methylnaphthalene	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:32	JMV	P5G0003
2-Methylphenol	BRL	ug/L	10	2.1	1	8270D	7/2/15 16:32	JMV	P5G0003
2-Nitroaniline	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:32	JMV	P5G0003
2-Nitrophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:32	JMV	P5G0003
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:32	JMV	P5G0003
3/4-Methylphenol	BRL	ug/L	10	1.9	1	8270D	7/2/15 16:32	JMV	P5G0003
3-Nitroaniline	BRL	ug/L	10	1.2	1	8270D	7/2/15 16:32	JMV	P5G0003
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:32	JMV	P5G0003
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:32	JMV	P5G0003
4-Chloro-3-methylphenol	BRL	ug/L	10	1.9	1	8270D	7/2/15 16:32	JMV	P5G0003
4-Chloroaniline	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:32	JMV	P5G0003
4-Chlorophenyl phenyl ether	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:32	JMV	P5G0003
4-Nitroaniline	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:32	JMV	P5G0003
4-Nitrophenol	BRL	ug/L	10	0.66	1	8270D	7/2/15 16:32	JMV	P5G0003
Acenaphthene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:32	JMV	P5G0003
Acenaphthylene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:32	JMV	P5G0003
Aniline	BRL	ug/L	10	2.1	1	8270D	7/2/15 16:32	JMV	P5G0003
Anthracene	BRL	ug/L	10	3.0	1	8270D	7/2/15 16:32	JMV	P5G0003
Azobenzene	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:32	JMV	P5G0003

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-32 GW
Prism Sample ID: 5070005-17
Prism Work Order: 5070005
Time Collected: 06/29/15 09:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:32	JMV	P5G0003
Benzo(a)pyrene	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:32	JMV	P5G0003
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	7/2/15 16:32	JMV	P5G0003
Benzo(g,h,i)perylene	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:32	JMV	P5G0003
Benzo(k)fluoranthene	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:32	JMV	P5G0003
Benzoic Acid	BRL	ug/L	100	2.7	1	8270D	7/2/15 16:32	JMV	P5G0003
Benzyl alcohol	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:32	JMV	P5G0003
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:32	JMV	P5G0003
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:32	JMV	P5G0003
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:32	JMV	P5G0003
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:32	JMV	P5G0003
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:32	JMV	P5G0003
Chrysene	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:32	JMV	P5G0003
Dibenzo(a,h)anthracene	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:32	JMV	P5G0003
Dibenzofuran	BRL	ug/L	10	2.3	1	8270D	7/2/15 16:32	JMV	P5G0003
Diethyl phthalate	BRL	ug/L	10	1.9	1	8270D	7/2/15 16:32	JMV	P5G0003
Dimethyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:32	JMV	P5G0003
Di-n-butyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:32	JMV	P5G0003
Di-n-octyl phthalate	BRL	ug/L	10	1.7	1	8270D	7/2/15 16:32	JMV	P5G0003
Fluoranthene	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:32	JMV	P5G0003
Fluorene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:32	JMV	P5G0003
Hexachlorobenzene	BRL	ug/L	10	1.9	1	8270D	7/2/15 16:32	JMV	P5G0003
Hexachlorobutadiene	BRL	ug/L	10	2.6	1	8270D	7/2/15 16:32	JMV	P5G0003
Hexachlorocyclopentadiene	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:32	JMV	P5G0003
Hexachloroethane	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:32	JMV	P5G0003
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.1	1	8270D	7/2/15 16:32	JMV	P5G0003
Isophorone	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:32	JMV	P5G0003
Naphthalene	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:32	JMV	P5G0003
Nitrobenzene	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:32	JMV	P5G0003
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:32	JMV	P5G0003
N-Nitrosodiphenylamine	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:32	JMV	P5G0003
Pentachlorophenol	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:32	JMV	P5G0003
Phenanthrene	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:32	JMV	P5G0003
Phenol	BRL	ug/L	10	1.2	1	8270D	7/2/15 16:32	JMV	P5G0003
Pyrene	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:32	JMV	P5G0003

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	107 %	49-109
2-Fluorobiphenyl	97 %	55-96
2-Fluorophenol	53 %	27-74
Nitrobenzene-d5	88 %	53-99
Phenol-d5	35 %	11-52
Terphenyl-d14	92 %	42-133

Volatile Organic Compounds by GC/MS

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-32 GW
Prism Sample ID: 5070005-17
Prism Work Order: 5070005
Time Collected: 06/29/15 09:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 12:55	MSC	P5G0039
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 12:55	MSC	P5G0039
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	7/2/15 12:55	MSC	P5G0039
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 12:55	MSC	P5G0039
1,1-Dichloroethane	0.68	ug/L	0.50	0.083	1	8260B	7/2/15 12:55	MSC	P5G0039
1,1-Dichloroethylene	2.0	ug/L	0.50	0.083	1	8260B	7/2/15 12:55	MSC	P5G0039
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 12:55	MSC	P5G0039
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	7/2/15 12:55	MSC	P5G0039
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	7/2/15 12:55	MSC	P5G0039
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	7/2/15 12:55	MSC	P5G0039
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 12:55	MSC	P5G0039
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	7/2/15 12:55	MSC	P5G0039
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 12:55	MSC	P5G0039
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 12:55	MSC	P5G0039
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 12:55	MSC	P5G0039
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 12:55	MSC	P5G0039
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 12:55	MSC	P5G0039
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 12:55	MSC	P5G0039
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	7/2/15 12:55	MSC	P5G0039
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 12:55	MSC	P5G0039
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	7/2/15 12:55	MSC	P5G0039
2-Chloroethyl Vinyl Ether	BRL CVL	ug/L	5.0	0.37	1	8260B	7/2/15 12:55	MSC	P5G0039
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 12:55	MSC	P5G0039
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 12:55	MSC	P5G0039
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	7/2/15 12:55	MSC	P5G0039
Acetone	BRL	ug/L	5.0	0.31	1	8260B	7/2/15 12:55	MSC	P5G0039
Acrolein	BRL	ug/L	20	0.20	1	8260B	7/2/15 12:55	MSC	P5G0039
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	7/2/15 12:55	MSC	P5G0039
Benzene	BRL	ug/L	0.50	0.048	1	8260B	7/2/15 12:55	MSC	P5G0039
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	7/2/15 12:55	MSC	P5G0039
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	7/2/15 12:55	MSC	P5G0039
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 12:55	MSC	P5G0039
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	7/2/15 12:55	MSC	P5G0039
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	7/2/15 12:55	MSC	P5G0039
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	7/2/15 12:55	MSC	P5G0039
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 12:55	MSC	P5G0039
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 12:55	MSC	P5G0039
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	7/2/15 12:55	MSC	P5G0039
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 12:55	MSC	P5G0039
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 12:55	MSC	P5G0039
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	7/2/15 12:55	MSC	P5G0039
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 12:55	MSC	P5G0039
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	7/2/15 12:55	MSC	P5G0039

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-32 GW
Prism Sample ID: 5070005-17
Prism Work Order: 5070005
Time Collected: 06/29/15 09:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	7/2/15 12:55	MSC	P5G0039
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	7/2/15 12:55	MSC	P5G0039
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 12:55	MSC	P5G0039
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	7/2/15 12:55	MSC	P5G0039
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 12:55	MSC	P5G0039
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 12:55	MSC	P5G0039
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	7/2/15 12:55	MSC	P5G0039
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	7/2/15 12:55	MSC	P5G0039
Methyl Ethyl Ketone (2-Butanone)	BRL A	ug/L	5.0	0.24	1	8260B	7/2/15 12:55	MSC	P5G0039
Methyl Isobutyl Ketone	BRL A	ug/L	5.0	0.078	1	8260B	7/2/15 12:55	MSC	P5G0039
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	7/2/15 12:55	MSC	P5G0039
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	7/2/15 12:55	MSC	P5G0039
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	7/2/15 12:55	MSC	P5G0039
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	7/2/15 12:55	MSC	P5G0039
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	7/2/15 12:55	MSC	P5G0039
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 12:55	MSC	P5G0039
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 12:55	MSC	P5G0039
Styrene	BRL	ug/L	0.50	0.047	1	8260B	7/2/15 12:55	MSC	P5G0039
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	7/2/15 12:55	MSC	P5G0039
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	7/2/15 12:55	MSC	P5G0039
Toluene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 12:55	MSC	P5G0039
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	7/2/15 12:55	MSC	P5G0039
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	7/2/15 12:55	MSC	P5G0039
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	7/2/15 12:55	MSC	P5G0039
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 12:55	MSC	P5G0039
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	7/2/15 12:55	MSC	P5G0039
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	7/2/15 12:55	MSC	P5G0039

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	89 %	80-124
Dibromofluoromethane	104 %	75-129
Toluene-d8	96 %	77-123

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	7/2/15 22:58	ANG	P5G0019
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	7/2/15 22:58	ANG	P5G0019
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	7/2/15 22:58	ANG	P5G0019

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	96 %	70-130
2,5-Dibromotoluene (FID)	97 %	70-130

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-33 GW
Prism Sample ID: 5070005-18
Prism Work Order: 5070005
Time Collected: 06/29/15 11:35
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID															
Extractable Petroleum Hydrocarbons by GC/FID																								
C9-C18 Aliphatics	BRL	ug/L	100	9.3	1	MADEP EPH	7/7/15 16:20	ZRC	P5G0047															
C19-C36 Aliphatics	30	ug/L	100	28	1	MADEP EPH	7/7/15 16:20	ZRC	P5G0047															
C11-C22 Aromatics	BRL	ug/L	100	13	1	MADEP EPH	7/7/15 16:20	ZRC	P5G0047															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Surrogate</th> <th style="text-align: center;">Recovery</th> <th style="text-align: center;">Control Limits</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1-Chlorooctadecane</td> <td style="text-align: center;">80 %</td> <td style="text-align: center;">40-140</td> </tr> <tr> <td style="text-align: center;">o-Terphenyl</td> <td style="text-align: center;">73 %</td> <td style="text-align: center;">40-140</td> </tr> <tr> <td style="text-align: center;">2-Fluorobiphenyl</td> <td style="text-align: center;">76 %</td> <td style="text-align: center;">40-140</td> </tr> <tr> <td style="text-align: center;">2-Bromonaphthalene</td> <td style="text-align: center;">82 %</td> <td style="text-align: center;">40-140</td> </tr> </tbody> </table>										Surrogate	Recovery	Control Limits	1-Chlorooctadecane	80 %	40-140	o-Terphenyl	73 %	40-140	2-Fluorobiphenyl	76 %	40-140	2-Bromonaphthalene	82 %	40-140
Surrogate	Recovery	Control Limits																						
1-Chlorooctadecane	80 %	40-140																						
o-Terphenyl	73 %	40-140																						
2-Fluorobiphenyl	76 %	40-140																						
2-Bromonaphthalene	82 %	40-140																						
Semivolatile Organic Compounds by GC/MS																								
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:53	JMV	P5G0003															
1,2-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:53	JMV	P5G0003															
1,3-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:53	JMV	P5G0003															
1,4-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:53	JMV	P5G0003															
1-Methylnaphthalene	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:53	JMV	P5G0003															
2,4,5-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	7/2/15 16:53	JMV	P5G0003															
2,4,6-Trichlorophenol	BRL	ug/L	10	2.6	1	8270D	7/2/15 16:53	JMV	P5G0003															
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:53	JMV	P5G0003															
2,4-Dimethylphenol	BRL	ug/L	10	2.3	1	8270D	7/2/15 16:53	JMV	P5G0003															
2,4-Dinitrophenol	BRL	ug/L	10	3.7	1	8270D	7/2/15 16:53	JMV	P5G0003															
2,4-Dinitrotoluene	BRL	ug/L	10	1.9	1	8270D	7/2/15 16:53	JMV	P5G0003															
2,6-Dinitrotoluene	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:53	JMV	P5G0003															
2-Chloronaphthalene	BRL	ug/L	10	3.4	1	8270D	7/2/15 16:53	JMV	P5G0003															
2-Chlorophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:53	JMV	P5G0003															
2-Methylnaphthalene	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:53	JMV	P5G0003															
2-Methylphenol	BRL	ug/L	10	2.1	1	8270D	7/2/15 16:53	JMV	P5G0003															
2-Nitroaniline	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:53	JMV	P5G0003															
2-Nitrophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:53	JMV	P5G0003															
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:53	JMV	P5G0003															
3/4-Methylphenol	BRL	ug/L	10	1.9	1	8270D	7/2/15 16:53	JMV	P5G0003															
3-Nitroaniline	BRL	ug/L	10	1.2	1	8270D	7/2/15 16:53	JMV	P5G0003															
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:53	JMV	P5G0003															
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:53	JMV	P5G0003															
4-Chloro-3-methylphenol	BRL	ug/L	10	1.9	1	8270D	7/2/15 16:53	JMV	P5G0003															
4-Chloroaniline	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:53	JMV	P5G0003															
4-Chlorophenyl phenyl ether	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:53	JMV	P5G0003															
4-Nitroaniline	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:53	JMV	P5G0003															
4-Nitrophenol	BRL	ug/L	10	0.66	1	8270D	7/2/15 16:53	JMV	P5G0003															
Acenaphthene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:53	JMV	P5G0003															
Acenaphthylene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:53	JMV	P5G0003															
Aniline	BRL	ug/L	10	2.1	1	8270D	7/2/15 16:53	JMV	P5G0003															
Anthracene	BRL	ug/L	10	3.0	1	8270D	7/2/15 16:53	JMV	P5G0003															
Azobenzene	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:53	JMV	P5G0003															

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-33 GW
Prism Sample ID: 5070005-18
Prism Work Order: 5070005
Time Collected: 06/29/15 11:35
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:53	JMV	P5G0003
Benzo(a)pyrene	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:53	JMV	P5G0003
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	7/2/15 16:53	JMV	P5G0003
Benzo(g,h,i)perylene	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:53	JMV	P5G0003
Benzo(k)fluoranthene	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:53	JMV	P5G0003
Benzoic Acid	BRL	ug/L	100	2.7	1	8270D	7/2/15 16:53	JMV	P5G0003
Benzyl alcohol	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:53	JMV	P5G0003
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:53	JMV	P5G0003
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:53	JMV	P5G0003
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:53	JMV	P5G0003
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:53	JMV	P5G0003
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:53	JMV	P5G0003
Chrysene	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:53	JMV	P5G0003
Dibenzo(a,h)anthracene	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:53	JMV	P5G0003
Dibenzofuran	BRL	ug/L	10	2.3	1	8270D	7/2/15 16:53	JMV	P5G0003
Diethyl phthalate	BRL	ug/L	10	1.9	1	8270D	7/2/15 16:53	JMV	P5G0003
Dimethyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:53	JMV	P5G0003
Di-n-butyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 16:53	JMV	P5G0003
Di-n-octyl phthalate	BRL	ug/L	10	1.7	1	8270D	7/2/15 16:53	JMV	P5G0003
Fluoranthene	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:53	JMV	P5G0003
Fluorene	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:53	JMV	P5G0003
Hexachlorobenzene	BRL	ug/L	10	1.9	1	8270D	7/2/15 16:53	JMV	P5G0003
Hexachlorobutadiene	BRL	ug/L	10	2.6	1	8270D	7/2/15 16:53	JMV	P5G0003
Hexachlorocyclopentadiene	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:53	JMV	P5G0003
Hexachloroethane	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:53	JMV	P5G0003
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.1	1	8270D	7/2/15 16:53	JMV	P5G0003
Isophorone	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:53	JMV	P5G0003
Naphthalene	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:53	JMV	P5G0003
Nitrobenzene	BRL	ug/L	10	2.4	1	8270D	7/2/15 16:53	JMV	P5G0003
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:53	JMV	P5G0003
N-Nitrosodiphenylamine	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:53	JMV	P5G0003
Pentachlorophenol	BRL	ug/L	10	2.5	1	8270D	7/2/15 16:53	JMV	P5G0003
Phenanthrene	BRL	ug/L	10	1.8	1	8270D	7/2/15 16:53	JMV	P5G0003
Phenol	BRL	ug/L	10	1.2	1	8270D	7/2/15 16:53	JMV	P5G0003
Pyrene	BRL	ug/L	10	2.2	1	8270D	7/2/15 16:53	JMV	P5G0003
				Surrogate		Recovery		Control Limits	
				2,4,6-Tribromophenol		118 %		49-109	SR
				2-Fluorobiphenyl		107 %		55-96	SR
				2-Fluorophenol		64 %		27-74	
				Nitrobenzene-d5		98 %		53-99	
				Phenol-d5		42 %		11-52	
				Terphenyl-d14		96 %		42-133	

Volatile Organic Compounds by GC/MS

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-33 GW
Prism Sample ID: 5070005-18
Prism Work Order: 5070005
Time Collected: 06/29/15 11:35
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 13:29	MSC	P5G0039
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 13:29	MSC	P5G0039
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	7/2/15 13:29	MSC	P5G0039
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 13:29	MSC	P5G0039
1,1-Dichloroethane	0.51	ug/L	0.50	0.083	1	8260B	7/2/15 13:29	MSC	P5G0039
1,1-Dichloroethylene	11	ug/L	0.50	0.083	1	8260B	7/2/15 13:29	MSC	P5G0039
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 13:29	MSC	P5G0039
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	7/2/15 13:29	MSC	P5G0039
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	7/2/15 13:29	MSC	P5G0039
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	7/2/15 13:29	MSC	P5G0039
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 13:29	MSC	P5G0039
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	7/2/15 13:29	MSC	P5G0039
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 13:29	MSC	P5G0039
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 13:29	MSC	P5G0039
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 13:29	MSC	P5G0039
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 13:29	MSC	P5G0039
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 13:29	MSC	P5G0039
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 13:29	MSC	P5G0039
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	7/2/15 13:29	MSC	P5G0039
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 13:29	MSC	P5G0039
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	7/2/15 13:29	MSC	P5G0039
2-Chloroethyl Vinyl Ether	BRL CVL	ug/L	5.0	0.37	1	8260B	7/2/15 13:29	MSC	P5G0039
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 13:29	MSC	P5G0039
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 13:29	MSC	P5G0039
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	7/2/15 13:29	MSC	P5G0039
Acetone	BRL	ug/L	5.0	0.31	1	8260B	7/2/15 13:29	MSC	P5G0039
Acrolein	BRL	ug/L	20	0.20	1	8260B	7/2/15 13:29	MSC	P5G0039
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	7/2/15 13:29	MSC	P5G0039
Benzene	BRL	ug/L	0.50	0.048	1	8260B	7/2/15 13:29	MSC	P5G0039
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	7/2/15 13:29	MSC	P5G0039
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	7/2/15 13:29	MSC	P5G0039
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 13:29	MSC	P5G0039
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	7/2/15 13:29	MSC	P5G0039
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	7/2/15 13:29	MSC	P5G0039
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	7/2/15 13:29	MSC	P5G0039
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 13:29	MSC	P5G0039
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 13:29	MSC	P5G0039
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	7/2/15 13:29	MSC	P5G0039
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 13:29	MSC	P5G0039
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 13:29	MSC	P5G0039
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	7/2/15 13:29	MSC	P5G0039
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 13:29	MSC	P5G0039
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	7/2/15 13:29	MSC	P5G0039

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-33 GW
Prism Sample ID: 5070005-18
Prism Work Order: 5070005
Time Collected: 06/29/15 11:35
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	7/2/15 13:29	MSC	P5G0039
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	7/2/15 13:29	MSC	P5G0039
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 13:29	MSC	P5G0039
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	7/2/15 13:29	MSC	P5G0039
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 13:29	MSC	P5G0039
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 13:29	MSC	P5G0039
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	7/2/15 13:29	MSC	P5G0039
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	7/2/15 13:29	MSC	P5G0039
Methyl Ethyl Ketone (2-Butanone)	BRL A	ug/L	5.0	0.24	1	8260B	7/2/15 13:29	MSC	P5G0039
Methyl Isobutyl Ketone	BRL A	ug/L	5.0	0.078	1	8260B	7/2/15 13:29	MSC	P5G0039
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	7/2/15 13:29	MSC	P5G0039
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	7/2/15 13:29	MSC	P5G0039
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	7/2/15 13:29	MSC	P5G0039
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	7/2/15 13:29	MSC	P5G0039
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	7/2/15 13:29	MSC	P5G0039
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 13:29	MSC	P5G0039
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 13:29	MSC	P5G0039
Styrene	BRL	ug/L	0.50	0.047	1	8260B	7/2/15 13:29	MSC	P5G0039
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	7/2/15 13:29	MSC	P5G0039
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	7/2/15 13:29	MSC	P5G0039
Toluene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 13:29	MSC	P5G0039
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	7/2/15 13:29	MSC	P5G0039
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	7/2/15 13:29	MSC	P5G0039
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	7/2/15 13:29	MSC	P5G0039
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 13:29	MSC	P5G0039
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	7/2/15 13:29	MSC	P5G0039
Vinyl chloride	0.56	ug/L	0.50	0.097	1	8260B	7/2/15 13:29	MSC	P5G0039

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	90 %	80-124
Dibromofluoromethane	107 %	75-129
Toluene-d8	100 %	77-123

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	7/2/15 23:29	ANG	P5G0019
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	7/2/15 23:29	ANG	P5G0019
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	7/2/15 23:29	ANG	P5G0019

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	107 %	70-130
2,5-Dibromotoluene (FID)	108 %	70-130

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-35 GW
Prism Sample ID: 5070005-19
Prism Work Order: 5070005
Time Collected: 06/29/15 13:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	9.3	1	MADEP EPH	7/7/15 16:56	ZRC	P5G0047
C19-C36 Aliphatics	BRL	ug/L	100	28	1	MADEP EPH	7/7/15 16:56	ZRC	P5G0047
C11-C22 Aromatics	BRL	ug/L	100	13	1	MADEP EPH	7/7/15 16:56	ZRC	P5G0047
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	70 %		40-140
						o-Terphenyl	73 %		40-140
						2-Fluorobiphenyl	76 %		40-140
						2-Bromonaphthalene	79 %		40-140
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:14	JMV	P5G0003
1,2-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:14	JMV	P5G0003
1,3-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:14	JMV	P5G0003
1,4-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:14	JMV	P5G0003
1-Methylnaphthalene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:14	JMV	P5G0003
2,4,5-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	7/2/15 17:14	JMV	P5G0003
2,4,6-Trichlorophenol	BRL	ug/L	10	2.6	1	8270D	7/2/15 17:14	JMV	P5G0003
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:14	JMV	P5G0003
2,4-Dimethylphenol	BRL	ug/L	10	2.3	1	8270D	7/2/15 17:14	JMV	P5G0003
2,4-Dinitrophenol	BRL	ug/L	10	3.7	1	8270D	7/2/15 17:14	JMV	P5G0003
2,4-Dinitrotoluene	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:14	JMV	P5G0003
2,6-Dinitrotoluene	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:14	JMV	P5G0003
2-Chloronaphthalene	BRL	ug/L	10	3.4	1	8270D	7/2/15 17:14	JMV	P5G0003
2-Chlorophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:14	JMV	P5G0003
2-Methylnaphthalene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:14	JMV	P5G0003
2-Methylphenol	BRL	ug/L	10	2.1	1	8270D	7/2/15 17:14	JMV	P5G0003
2-Nitroaniline	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:14	JMV	P5G0003
2-Nitrophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:14	JMV	P5G0003
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:14	JMV	P5G0003
3/4-Methylphenol	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:14	JMV	P5G0003
3-Nitroaniline	BRL	ug/L	10	1.2	1	8270D	7/2/15 17:14	JMV	P5G0003
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:14	JMV	P5G0003
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:14	JMV	P5G0003
4-Chloro-3-methylphenol	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:14	JMV	P5G0003
4-Chloroaniline	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:14	JMV	P5G0003
4-Chlorophenyl phenyl ether	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:14	JMV	P5G0003
4-Nitroaniline	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:14	JMV	P5G0003
4-Nitrophenol	BRL	ug/L	10	0.66	1	8270D	7/2/15 17:14	JMV	P5G0003
Acenaphthene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:14	JMV	P5G0003
Acenaphthylene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:14	JMV	P5G0003
Aniline	BRL	ug/L	10	2.1	1	8270D	7/2/15 17:14	JMV	P5G0003
Anthracene	BRL	ug/L	10	3.0	1	8270D	7/2/15 17:14	JMV	P5G0003
Azobenzene	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:14	JMV	P5G0003

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-35 GW
Prism Sample ID: 5070005-19
Prism Work Order: 5070005
Time Collected: 06/29/15 13:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:14	JMV	P5G0003
Benzo(a)pyrene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:14	JMV	P5G0003
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	7/2/15 17:14	JMV	P5G0003
Benzo(g,h,i)perylene	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:14	JMV	P5G0003
Benzo(k)fluoranthene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:14	JMV	P5G0003
Benzoic Acid	BRL	ug/L	100	2.7	1	8270D	7/2/15 17:14	JMV	P5G0003
Benzyl alcohol	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:14	JMV	P5G0003
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:14	JMV	P5G0003
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:14	JMV	P5G0003
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:14	JMV	P5G0003
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:14	JMV	P5G0003
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:14	JMV	P5G0003
Chrysene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:14	JMV	P5G0003
Dibenzo(a,h)anthracene	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:14	JMV	P5G0003
Dibenzofuran	BRL	ug/L	10	2.3	1	8270D	7/2/15 17:14	JMV	P5G0003
Diethyl phthalate	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:14	JMV	P5G0003
Dimethyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:14	JMV	P5G0003
Di-n-butyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:14	JMV	P5G0003
Di-n-octyl phthalate	BRL	ug/L	10	1.7	1	8270D	7/2/15 17:14	JMV	P5G0003
Fluoranthene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:14	JMV	P5G0003
Fluorene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:14	JMV	P5G0003
Hexachlorobenzene	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:14	JMV	P5G0003
Hexachlorobutadiene	BRL	ug/L	10	2.6	1	8270D	7/2/15 17:14	JMV	P5G0003
Hexachlorocyclopentadiene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:14	JMV	P5G0003
Hexachloroethane	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:14	JMV	P5G0003
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.1	1	8270D	7/2/15 17:14	JMV	P5G0003
Isophorone	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:14	JMV	P5G0003
Naphthalene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:14	JMV	P5G0003
Nitrobenzene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:14	JMV	P5G0003
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:14	JMV	P5G0003
N-Nitrosodiphenylamine	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:14	JMV	P5G0003
Pentachlorophenol	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:14	JMV	P5G0003
Phenanthrene	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:14	JMV	P5G0003
Phenol	BRL	ug/L	10	1.2	1	8270D	7/2/15 17:14	JMV	P5G0003
Pyrene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:14	JMV	P5G0003
				Surrogate		Recovery		Control Limits	
				2,4,6-Tribromophenol		111 %		49-109	SR
				2-Fluorobiphenyl		104 %		55-96	SR
				2-Fluorophenol		57 %		27-74	
				Nitrobenzene-d5		94 %		53-99	
				Phenol-d5		38 %		11-52	
				Terphenyl-d14		93 %		42-133	

Volatile Organic Compounds by GC/MS

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-35 GW
Prism Sample ID: 5070005-19
Prism Work Order: 5070005
Time Collected: 06/29/15 13:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 14:04	MSC	P5G0039
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 14:04	MSC	P5G0039
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	7/2/15 14:04	MSC	P5G0039
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 14:04	MSC	P5G0039
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	7/2/15 14:04	MSC	P5G0039
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	7/2/15 14:04	MSC	P5G0039
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 14:04	MSC	P5G0039
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	7/2/15 14:04	MSC	P5G0039
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	7/2/15 14:04	MSC	P5G0039
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	7/2/15 14:04	MSC	P5G0039
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 14:04	MSC	P5G0039
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	7/2/15 14:04	MSC	P5G0039
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 14:04	MSC	P5G0039
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 14:04	MSC	P5G0039
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 14:04	MSC	P5G0039
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 14:04	MSC	P5G0039
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 14:04	MSC	P5G0039
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 14:04	MSC	P5G0039
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	7/2/15 14:04	MSC	P5G0039
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 14:04	MSC	P5G0039
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	7/2/15 14:04	MSC	P5G0039
2-Chloroethyl Vinyl Ether	BRL CVL	ug/L	5.0	0.37	1	8260B	7/2/15 14:04	MSC	P5G0039
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 14:04	MSC	P5G0039
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 14:04	MSC	P5G0039
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	7/2/15 14:04	MSC	P5G0039
Acetone	BRL	ug/L	5.0	0.31	1	8260B	7/2/15 14:04	MSC	P5G0039
Acrolein	BRL	ug/L	20	0.20	1	8260B	7/2/15 14:04	MSC	P5G0039
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	7/2/15 14:04	MSC	P5G0039
Benzene	BRL	ug/L	0.50	0.048	1	8260B	7/2/15 14:04	MSC	P5G0039
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	7/2/15 14:04	MSC	P5G0039
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	7/2/15 14:04	MSC	P5G0039
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 14:04	MSC	P5G0039
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	7/2/15 14:04	MSC	P5G0039
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	7/2/15 14:04	MSC	P5G0039
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	7/2/15 14:04	MSC	P5G0039
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 14:04	MSC	P5G0039
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 14:04	MSC	P5G0039
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	7/2/15 14:04	MSC	P5G0039
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 14:04	MSC	P5G0039
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 14:04	MSC	P5G0039
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	7/2/15 14:04	MSC	P5G0039
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 14:04	MSC	P5G0039
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	7/2/15 14:04	MSC	P5G0039

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-35 GW
Prism Sample ID: 5070005-19
Prism Work Order: 5070005
Time Collected: 06/29/15 13:50
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	7/2/15 14:04	MSC	P5G0039
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	7/2/15 14:04	MSC	P5G0039
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 14:04	MSC	P5G0039
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	7/2/15 14:04	MSC	P5G0039
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 14:04	MSC	P5G0039
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 14:04	MSC	P5G0039
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	7/2/15 14:04	MSC	P5G0039
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	7/2/15 14:04	MSC	P5G0039
Methyl Ethyl Ketone (2-Butanone)	BRL A	ug/L	5.0	0.24	1	8260B	7/2/15 14:04	MSC	P5G0039
Methyl Isobutyl Ketone	BRL A	ug/L	5.0	0.078	1	8260B	7/2/15 14:04	MSC	P5G0039
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	7/2/15 14:04	MSC	P5G0039
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	7/2/15 14:04	MSC	P5G0039
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	7/2/15 14:04	MSC	P5G0039
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	7/2/15 14:04	MSC	P5G0039
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	7/2/15 14:04	MSC	P5G0039
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 14:04	MSC	P5G0039
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 14:04	MSC	P5G0039
Styrene	BRL	ug/L	0.50	0.047	1	8260B	7/2/15 14:04	MSC	P5G0039
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	7/2/15 14:04	MSC	P5G0039
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	7/2/15 14:04	MSC	P5G0039
Toluene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 14:04	MSC	P5G0039
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	7/2/15 14:04	MSC	P5G0039
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	7/2/15 14:04	MSC	P5G0039
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	7/2/15 14:04	MSC	P5G0039
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 14:04	MSC	P5G0039
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	7/2/15 14:04	MSC	P5G0039
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	7/2/15 14:04	MSC	P5G0039

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	91 %	80-124
Dibromofluoromethane	103 %	75-129
Toluene-d8	98 %	77-123

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	7/3/15 0:01	ANG	P5G0019
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	7/3/15 0:01	ANG	P5G0019
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	7/3/15 0:01	ANG	P5G0019

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	98 %	70-130
2,5-Dibromotoluene (FID)	98 %	70-130

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-34 GW
Prism Sample ID: 5070005-20
Prism Work Order: 5070005
Time Collected: 06/29/15 17:15
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	9.3	1	MADEP EPH	7/7/15 17:33	ZRC	P5G0047
C19-C36 Aliphatics	BRL	ug/L	100	28	1	MADEP EPH	7/7/15 17:33	ZRC	P5G0047
C11-C22 Aromatics	BRL	ug/L	100	13	1	MADEP EPH	7/7/15 17:33	ZRC	P5G0047
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	79 %		40-140
						o-Terphenyl	66 %		40-140
						2-Fluorobiphenyl	72 %		40-140
						2-Bromonaphthalene	74 %		40-140
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:35	JMV	P5G0003
1,2-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:35	JMV	P5G0003
1,3-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:35	JMV	P5G0003
1,4-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:35	JMV	P5G0003
1-Methylnaphthalene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:35	JMV	P5G0003
2,4,5-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	7/2/15 17:35	JMV	P5G0003
2,4,6-Trichlorophenol	BRL	ug/L	10	2.6	1	8270D	7/2/15 17:35	JMV	P5G0003
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:35	JMV	P5G0003
2,4-Dimethylphenol	BRL	ug/L	10	2.3	1	8270D	7/2/15 17:35	JMV	P5G0003
2,4-Dinitrophenol	BRL	ug/L	10	3.7	1	8270D	7/2/15 17:35	JMV	P5G0003
2,4-Dinitrotoluene	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:35	JMV	P5G0003
2,6-Dinitrotoluene	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:35	JMV	P5G0003
2-Chloronaphthalene	BRL	ug/L	10	3.4	1	8270D	7/2/15 17:35	JMV	P5G0003
2-Chlorophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:35	JMV	P5G0003
2-Methylnaphthalene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:35	JMV	P5G0003
2-Methylphenol	BRL	ug/L	10	2.1	1	8270D	7/2/15 17:35	JMV	P5G0003
2-Nitroaniline	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:35	JMV	P5G0003
2-Nitrophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:35	JMV	P5G0003
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:35	JMV	P5G0003
3/4-Methylphenol	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:35	JMV	P5G0003
3-Nitroaniline	BRL	ug/L	10	1.2	1	8270D	7/2/15 17:35	JMV	P5G0003
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:35	JMV	P5G0003
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:35	JMV	P5G0003
4-Chloro-3-methylphenol	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:35	JMV	P5G0003
4-Chloroaniline	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:35	JMV	P5G0003
4-Chlorophenyl phenyl ether	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:35	JMV	P5G0003
4-Nitroaniline	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:35	JMV	P5G0003
4-Nitrophenol	BRL	ug/L	10	0.66	1	8270D	7/2/15 17:35	JMV	P5G0003
Acenaphthene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:35	JMV	P5G0003
Acenaphthylene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:35	JMV	P5G0003
Aniline	BRL	ug/L	10	2.1	1	8270D	7/2/15 17:35	JMV	P5G0003
Anthracene	BRL	ug/L	10	3.0	1	8270D	7/2/15 17:35	JMV	P5G0003
Azobenzene	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:35	JMV	P5G0003

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-34 GW
Prism Sample ID: 5070005-20
Prism Work Order: 5070005
Time Collected: 06/29/15 17:15
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:35	JMV	P5G0003
Benzo(a)pyrene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:35	JMV	P5G0003
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	7/2/15 17:35	JMV	P5G0003
Benzo(g,h,i)perylene	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:35	JMV	P5G0003
Benzo(k)fluoranthene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:35	JMV	P5G0003
Benzoic Acid	BRL	ug/L	100	2.7	1	8270D	7/2/15 17:35	JMV	P5G0003
Benzyl alcohol	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:35	JMV	P5G0003
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:35	JMV	P5G0003
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:35	JMV	P5G0003
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:35	JMV	P5G0003
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:35	JMV	P5G0003
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:35	JMV	P5G0003
Chrysene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:35	JMV	P5G0003
Dibenzo(a,h)anthracene	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:35	JMV	P5G0003
Dibenzofuran	BRL	ug/L	10	2.3	1	8270D	7/2/15 17:35	JMV	P5G0003
Diethyl phthalate	11	ug/L	10	1.9	1	8270D	7/2/15 17:35	JMV	P5G0003
Dimethyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:35	JMV	P5G0003
Di-n-butyl phthalate	5.7 J	ug/L	10	2.0	1	8270D	7/2/15 17:35	JMV	P5G0003
Di-n-octyl phthalate	BRL	ug/L	10	1.7	1	8270D	7/2/15 17:35	JMV	P5G0003
Fluoranthene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:35	JMV	P5G0003
Fluorene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:35	JMV	P5G0003
Hexachlorobenzene	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:35	JMV	P5G0003
Hexachlorobutadiene	BRL	ug/L	10	2.6	1	8270D	7/2/15 17:35	JMV	P5G0003
Hexachlorocyclopentadiene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:35	JMV	P5G0003
Hexachloroethane	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:35	JMV	P5G0003
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.1	1	8270D	7/2/15 17:35	JMV	P5G0003
Isophorone	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:35	JMV	P5G0003
Naphthalene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:35	JMV	P5G0003
Nitrobenzene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:35	JMV	P5G0003
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:35	JMV	P5G0003
N-Nitrosodiphenylamine	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:35	JMV	P5G0003
Pentachlorophenol	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:35	JMV	P5G0003
Phenanthrene	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:35	JMV	P5G0003
Phenol	BRL	ug/L	10	1.2	1	8270D	7/2/15 17:35	JMV	P5G0003
Pyrene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:35	JMV	P5G0003

Surrogate	Recovery	Control Limits
2,4,6-Tribromophenol	108 %	49-109
2-Fluorobiphenyl	96 %	55-96
2-Fluorophenol	57 %	27-74
Nitrobenzene-d5	90 %	53-99
Phenol-d5	38 %	11-52
Terphenyl-d14	90 %	42-133

Volatile Organic Compounds by GC/MS

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-34 GW
Prism Sample ID: 5070005-20
Prism Work Order: 5070005
Time Collected: 06/29/15 17:15
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 14:38	MSC	P5G0039
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 14:38	MSC	P5G0039
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	7/2/15 14:38	MSC	P5G0039
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 14:38	MSC	P5G0039
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	7/2/15 14:38	MSC	P5G0039
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	7/2/15 14:38	MSC	P5G0039
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 14:38	MSC	P5G0039
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	7/2/15 14:38	MSC	P5G0039
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	7/2/15 14:38	MSC	P5G0039
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	7/2/15 14:38	MSC	P5G0039
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 14:38	MSC	P5G0039
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	7/2/15 14:38	MSC	P5G0039
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 14:38	MSC	P5G0039
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 14:38	MSC	P5G0039
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 14:38	MSC	P5G0039
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 14:38	MSC	P5G0039
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 14:38	MSC	P5G0039
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 14:38	MSC	P5G0039
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	7/2/15 14:38	MSC	P5G0039
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 14:38	MSC	P5G0039
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	7/2/15 14:38	MSC	P5G0039
2-Chloroethyl Vinyl Ether	BRL CVL	ug/L	5.0	0.37	1	8260B	7/2/15 14:38	MSC	P5G0039
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 14:38	MSC	P5G0039
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 14:38	MSC	P5G0039
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	7/2/15 14:38	MSC	P5G0039
Acetone	5.7	ug/L	5.0	0.31	1	8260B	7/2/15 14:38	MSC	P5G0039
Acrolein	BRL	ug/L	20	0.20	1	8260B	7/2/15 14:38	MSC	P5G0039
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	7/2/15 14:38	MSC	P5G0039
Benzene	BRL	ug/L	0.50	0.048	1	8260B	7/2/15 14:38	MSC	P5G0039
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	7/2/15 14:38	MSC	P5G0039
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	7/2/15 14:38	MSC	P5G0039
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 14:38	MSC	P5G0039
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	7/2/15 14:38	MSC	P5G0039
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	7/2/15 14:38	MSC	P5G0039
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	7/2/15 14:38	MSC	P5G0039
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 14:38	MSC	P5G0039
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 14:38	MSC	P5G0039
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	7/2/15 14:38	MSC	P5G0039
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 14:38	MSC	P5G0039
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 14:38	MSC	P5G0039
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	7/2/15 14:38	MSC	P5G0039
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 14:38	MSC	P5G0039
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	7/2/15 14:38	MSC	P5G0039

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: SB-34 GW
Prism Sample ID: 5070005-20
Prism Work Order: 5070005
Time Collected: 06/29/15 17:15
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	7/2/15 14:38	MSC	P5G0039
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	7/2/15 14:38	MSC	P5G0039
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 14:38	MSC	P5G0039
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	7/2/15 14:38	MSC	P5G0039
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 14:38	MSC	P5G0039
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 14:38	MSC	P5G0039
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	7/2/15 14:38	MSC	P5G0039
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	7/2/15 14:38	MSC	P5G0039
Methyl Ethyl Ketone (2-Butanone)	BRL A	ug/L	5.0	0.24	1	8260B	7/2/15 14:38	MSC	P5G0039
Methyl Isobutyl Ketone	BRL A	ug/L	5.0	0.078	1	8260B	7/2/15 14:38	MSC	P5G0039
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	7/2/15 14:38	MSC	P5G0039
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	7/2/15 14:38	MSC	P5G0039
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	7/2/15 14:38	MSC	P5G0039
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	7/2/15 14:38	MSC	P5G0039
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	7/2/15 14:38	MSC	P5G0039
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 14:38	MSC	P5G0039
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 14:38	MSC	P5G0039
Styrene	BRL	ug/L	0.50	0.047	1	8260B	7/2/15 14:38	MSC	P5G0039
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	7/2/15 14:38	MSC	P5G0039
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	7/2/15 14:38	MSC	P5G0039
Toluene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 14:38	MSC	P5G0039
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	7/2/15 14:38	MSC	P5G0039
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	7/2/15 14:38	MSC	P5G0039
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	7/2/15 14:38	MSC	P5G0039
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 14:38	MSC	P5G0039
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	7/2/15 14:38	MSC	P5G0039
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	7/2/15 14:38	MSC	P5G0039

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	90 %	80-124
Dibromofluoromethane	105 %	75-129
Toluene-d8	95 %	77-123

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	7/3/15 0:32	ANG	P5G0019
C9-C12 Aliphatics	17 J	ug/L	50	1.3	1	MADEP VPH	7/3/15 0:32	ANG	P5G0019
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	7/3/15 0:32	ANG	P5G0019

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	100 %	70-130
2,5-Dibromotoluene (FID)	101 %	70-130

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: MW-14
Prism Sample ID: 5070005-21
Prism Work Order: 5070005
Time Collected: 06/29/15 18:30
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	100	9.3	1	MADEP EPH	7/7/15 18:09	ZRC	P5G0047
C19-C36 Aliphatics	BRL	ug/L	100	28	1	MADEP EPH	7/7/15 18:09	ZRC	P5G0047
C11-C22 Aromatics	BRL	ug/L	100	13	1	MADEP EPH	7/7/15 18:09	ZRC	P5G0047
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	93 %		40-140
						o-Terphenyl	65 %		40-140
						2-Fluorobiphenyl	73 %		40-140
						2-Bromonaphthalene	75 %		40-140
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:56	JMV	P5G0003
1,2-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:56	JMV	P5G0003
1,3-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:56	JMV	P5G0003
1,4-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:56	JMV	P5G0003
1-Methylnaphthalene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:56	JMV	P5G0003
2,4,5-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	7/2/15 17:56	JMV	P5G0003
2,4,6-Trichlorophenol	BRL	ug/L	10	2.6	1	8270D	7/2/15 17:56	JMV	P5G0003
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:56	JMV	P5G0003
2,4-Dimethylphenol	BRL	ug/L	10	2.3	1	8270D	7/2/15 17:56	JMV	P5G0003
2,4-Dinitrophenol	BRL	ug/L	10	3.7	1	8270D	7/2/15 17:56	JMV	P5G0003
2,4-Dinitrotoluene	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:56	JMV	P5G0003
2,6-Dinitrotoluene	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:56	JMV	P5G0003
2-Chloronaphthalene	BRL	ug/L	10	3.4	1	8270D	7/2/15 17:56	JMV	P5G0003
2-Chlorophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:56	JMV	P5G0003
2-Methylnaphthalene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:56	JMV	P5G0003
2-Methylphenol	BRL	ug/L	10	2.1	1	8270D	7/2/15 17:56	JMV	P5G0003
2-Nitroaniline	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:56	JMV	P5G0003
2-Nitrophenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:56	JMV	P5G0003
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:56	JMV	P5G0003
3/4-Methylphenol	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:56	JMV	P5G0003
3-Nitroaniline	BRL	ug/L	10	1.2	1	8270D	7/2/15 17:56	JMV	P5G0003
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:56	JMV	P5G0003
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:56	JMV	P5G0003
4-Chloro-3-methylphenol	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:56	JMV	P5G0003
4-Chloroaniline	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:56	JMV	P5G0003
4-Chlorophenyl phenyl ether	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:56	JMV	P5G0003
4-Nitroaniline	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:56	JMV	P5G0003
4-Nitrophenol	BRL	ug/L	10	0.66	1	8270D	7/2/15 17:56	JMV	P5G0003
Acenaphthene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:56	JMV	P5G0003
Acenaphthylene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:56	JMV	P5G0003
Aniline	BRL	ug/L	10	2.1	1	8270D	7/2/15 17:56	JMV	P5G0003
Anthracene	BRL	ug/L	10	3.0	1	8270D	7/2/15 17:56	JMV	P5G0003
Azobenzene	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:56	JMV	P5G0003

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: MW-14
Prism Sample ID: 5070005-21
Prism Work Order: 5070005
Time Collected: 06/29/15 18:30
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:56	JMV	P5G0003
Benzo(a)pyrene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:56	JMV	P5G0003
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	7/2/15 17:56	JMV	P5G0003
Benzo(g,h,i)perylene	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:56	JMV	P5G0003
Benzo(k)fluoranthene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:56	JMV	P5G0003
Benzoic Acid	BRL	ug/L	100	2.7	1	8270D	7/2/15 17:56	JMV	P5G0003
Benzyl alcohol	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:56	JMV	P5G0003
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:56	JMV	P5G0003
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:56	JMV	P5G0003
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:56	JMV	P5G0003
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:56	JMV	P5G0003
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:56	JMV	P5G0003
Chrysene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:56	JMV	P5G0003
Dibenzo(a,h)anthracene	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:56	JMV	P5G0003
Dibenzofuran	BRL	ug/L	10	2.3	1	8270D	7/2/15 17:56	JMV	P5G0003
Diethyl phthalate	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:56	JMV	P5G0003
Dimethyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:56	JMV	P5G0003
Di-n-butyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/2/15 17:56	JMV	P5G0003
Di-n-octyl phthalate	BRL	ug/L	10	1.7	1	8270D	7/2/15 17:56	JMV	P5G0003
Fluoranthene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:56	JMV	P5G0003
Fluorene	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:56	JMV	P5G0003
Hexachlorobenzene	BRL	ug/L	10	1.9	1	8270D	7/2/15 17:56	JMV	P5G0003
Hexachlorobutadiene	BRL	ug/L	10	2.6	1	8270D	7/2/15 17:56	JMV	P5G0003
Hexachlorocyclopentadiene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:56	JMV	P5G0003
Hexachloroethane	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:56	JMV	P5G0003
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.1	1	8270D	7/2/15 17:56	JMV	P5G0003
Isophorone	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:56	JMV	P5G0003
Naphthalene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:56	JMV	P5G0003
Nitrobenzene	BRL	ug/L	10	2.4	1	8270D	7/2/15 17:56	JMV	P5G0003
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:56	JMV	P5G0003
N-Nitrosodiphenylamine	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:56	JMV	P5G0003
Pentachlorophenol	BRL	ug/L	10	2.5	1	8270D	7/2/15 17:56	JMV	P5G0003
Phenanthrene	BRL	ug/L	10	1.8	1	8270D	7/2/15 17:56	JMV	P5G0003
Phenol	BRL	ug/L	10	1.2	1	8270D	7/2/15 17:56	JMV	P5G0003
Pyrene	BRL	ug/L	10	2.2	1	8270D	7/2/15 17:56	JMV	P5G0003
Surrogate						Recovery	Control Limits		
						2,4,6-Tribromophenol	113 %	49-109	SR
						2-Fluorobiphenyl	103 %	55-96	SR
						2-Fluorophenol	58 %	27-74	
						Nitrobenzene-d5	94 %	53-99	
						Phenol-d5	37 %	11-52	
						Terphenyl-d14	94 %	42-133	

Volatile Organic Compounds by GC/MS

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543

Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: MW-14
Prism Sample ID: 5070005-21
Prism Work Order: 5070005
Time Collected: 06/29/15 18:30
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 15:12	MSC	P5G0039
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 15:12	MSC	P5G0039
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	7/2/15 15:12	MSC	P5G0039
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 15:12	MSC	P5G0039
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	7/2/15 15:12	MSC	P5G0039
1,1-Dichloroethylene	1.1	ug/L	0.50	0.083	1	8260B	7/2/15 15:12	MSC	P5G0039
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 15:12	MSC	P5G0039
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	7/2/15 15:12	MSC	P5G0039
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	7/2/15 15:12	MSC	P5G0039
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	7/2/15 15:12	MSC	P5G0039
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 15:12	MSC	P5G0039
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	7/2/15 15:12	MSC	P5G0039
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 15:12	MSC	P5G0039
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 15:12	MSC	P5G0039
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 15:12	MSC	P5G0039
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 15:12	MSC	P5G0039
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 15:12	MSC	P5G0039
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 15:12	MSC	P5G0039
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	7/2/15 15:12	MSC	P5G0039
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 15:12	MSC	P5G0039
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	7/2/15 15:12	MSC	P5G0039
2-Chloroethyl Vinyl Ether	BRL CVL	ug/L	5.0	0.37	1	8260B	7/2/15 15:12	MSC	P5G0039
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 15:12	MSC	P5G0039
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 15:12	MSC	P5G0039
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	7/2/15 15:12	MSC	P5G0039
Acetone	BRL	ug/L	5.0	0.31	1	8260B	7/2/15 15:12	MSC	P5G0039
Acrolein	BRL	ug/L	20	0.20	1	8260B	7/2/15 15:12	MSC	P5G0039
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	7/2/15 15:12	MSC	P5G0039
Benzene	BRL	ug/L	0.50	0.048	1	8260B	7/2/15 15:12	MSC	P5G0039
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	7/2/15 15:12	MSC	P5G0039
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	7/2/15 15:12	MSC	P5G0039
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 15:12	MSC	P5G0039
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	7/2/15 15:12	MSC	P5G0039
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	7/2/15 15:12	MSC	P5G0039
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	7/2/15 15:12	MSC	P5G0039
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 15:12	MSC	P5G0039
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 15:12	MSC	P5G0039
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	7/2/15 15:12	MSC	P5G0039
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 15:12	MSC	P5G0039
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 15:12	MSC	P5G0039
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	7/2/15 15:12	MSC	P5G0039
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 15:12	MSC	P5G0039
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	7/2/15 15:12	MSC	P5G0039

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Sample Matrix: Water

Client Sample ID: MW-14
Prism Sample ID: 5070005-21
Prism Work Order: 5070005
Time Collected: 06/29/15 18:30
Time Submitted: 07/01/15 08:15

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	7/2/15 15:12	MSC	P5G0039
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	7/2/15 15:12	MSC	P5G0039
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 15:12	MSC	P5G0039
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	7/2/15 15:12	MSC	P5G0039
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 15:12	MSC	P5G0039
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 15:12	MSC	P5G0039
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	7/2/15 15:12	MSC	P5G0039
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	7/2/15 15:12	MSC	P5G0039
Methyl Ethyl Ketone (2-Butanone)	BRL A	ug/L	5.0	0.24	1	8260B	7/2/15 15:12	MSC	P5G0039
Methyl Isobutyl Ketone	BRL A	ug/L	5.0	0.078	1	8260B	7/2/15 15:12	MSC	P5G0039
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	7/2/15 15:12	MSC	P5G0039
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	7/2/15 15:12	MSC	P5G0039
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	7/2/15 15:12	MSC	P5G0039
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	7/2/15 15:12	MSC	P5G0039
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	7/2/15 15:12	MSC	P5G0039
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 15:12	MSC	P5G0039
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 15:12	MSC	P5G0039
Styrene	BRL	ug/L	0.50	0.047	1	8260B	7/2/15 15:12	MSC	P5G0039
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	7/2/15 15:12	MSC	P5G0039
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	7/2/15 15:12	MSC	P5G0039
Toluene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 15:12	MSC	P5G0039
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	7/2/15 15:12	MSC	P5G0039
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	7/2/15 15:12	MSC	P5G0039
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	7/2/15 15:12	MSC	P5G0039
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 15:12	MSC	P5G0039
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	7/2/15 15:12	MSC	P5G0039
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	7/2/15 15:12	MSC	P5G0039

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	89 %	80-124
Dibromofluoromethane	106 %	75-129
Toluene-d8	96 %	77-123

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	7/3/15 1:04	ANG	P5G0019
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	7/3/15 1:04	ANG	P5G0019
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	7/3/15 1:04	ANG	P5G0019

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	98 %	70-130
2,5-Dibromotoluene (FID)	99 %	70-130

Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

 Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

Blank (P5G0039-BLK1) Prepared & Analyzed: 07/02/15

1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L
1,1,1-Trichloroethane	BRL	0.50	ug/L
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L
1,1,2-Trichloroethane	BRL	0.50	ug/L
1,1-Dichloroethane	BRL	0.50	ug/L
1,1-Dichloroethylene	BRL	0.50	ug/L
1,1-Dichloropropylene	BRL	0.50	ug/L
1,2,3-Trichlorobenzene	BRL	2.0	ug/L
1,2,3-Trichloropropane	BRL	1.0	ug/L
1,2,4-Trichlorobenzene	BRL	1.0	ug/L
1,2,4-Trimethylbenzene	BRL	0.50	ug/L
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L
1,2-Dibromoethane	BRL	0.50	ug/L
1,2-Dichlorobenzene	BRL	0.50	ug/L
1,2-Dichloroethane	BRL	0.50	ug/L
1,2-Dichloropropane	BRL	0.50	ug/L
1,3,5-Trimethylbenzene	BRL	0.50	ug/L
1,3-Dichlorobenzene	BRL	0.50	ug/L
1,3-Dichloroproppane	BRL	0.50	ug/L
1,4-Dichlorobenzene	BRL	0.50	ug/L
2,2-Dichloropropane	BRL	2.0	ug/L
2-Chloroethyl Vinyl Ether	BRL	5.0	ug/L
2-Chlorotoluene	BRL	0.50	ug/L
4-Chlorotoluene	BRL	0.50	ug/L
4-Isopropyltoluene	BRL	0.50	ug/L
Acetone	BRL	5.0	ug/L
Acrolein	BRL	20	ug/L
Acrylonitrile	BRL	20	ug/L
Benzene	BRL	0.50	ug/L
Bromobenzene	BRL	0.50	ug/L
Bromo(chloromethane	BRL	0.50	ug/L
Bromodichloromethane	BRL	0.50	ug/L
Bromoform	BRL	1.0	ug/L
Bromomethane	BRL	1.0	ug/L
Carbon disulfide	BRL	5.0	ug/L
Carbon Tetrachloride	BRL	0.50	ug/L
Chlorobenzene	BRL	0.50	ug/L
Chloroethane	BRL	0.50	ug/L
Chloroform	BRL	0.50	ug/L
Chloromethane	BRL	0.50	ug/L
cis-1,2-Dichloroethylene	BRL	0.50	ug/L
cis-1,3-Dichloropropylene	BRL	0.50	ug/L
Dibromochloromethane	BRL	0.50	ug/L
Dibromomethane	BRL	0.50	ug/L
Dichlorodifluoromethane	BRL	1.0	ug/L
Ethylbenzene	BRL	0.50	ug/L

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

 Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

Blank (P5G0039-BLK1)	Prepared & Analyzed: 07/02/15					
Hexachlorobutadiene	BRL	2.0	ug/L			
Isopropyl Ether	BRL	0.50	ug/L			
Isopropylbenzene (Cumene)	BRL	0.50	ug/L			
m,p-Xylenes	BRL	1.0	ug/L			
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L			
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L			
Methyl Isobutyl Ketone	BRL	5.0	ug/L			
Methylene Chloride	BRL	1.0	ug/L			
Methyl-tert-Butyl Ether	BRL	0.50	ug/L			
Naphthalene	BRL	1.0	ug/L			
n-Butylbenzene	BRL	1.0	ug/L			
n-Propylbenzene	BRL	0.50	ug/L			
o-Xylene	BRL	0.50	ug/L			
sec-Butylbenzene	BRL	0.50	ug/L			
Styrene	BRL	0.50	ug/L			
tert-Butylbenzene	BRL	0.50	ug/L			
Tetrachloroethylene	BRL	0.50	ug/L			
Toluene	BRL	0.50	ug/L			
trans-1,2-Dichloroethylene	BRL	0.50	ug/L			
trans-1,3-Dichloropropylene	BRL	0.50	ug/L			
Trichloroethylene	BRL	0.50	ug/L			
Trichlorofluoromethane	BRL	0.50	ug/L			
Vinyl acetate	BRL	2.0	ug/L			
Vinyl chloride	BRL	0.50	ug/L			
Surrogate: 4-Bromofluorobenzene	22.3		ug/L	25.00	89	80-124
Surrogate: Dibromofluoromethane	26.8		ug/L	25.00	107	75-129
Surrogate: Toluene-d8	24.4		ug/L	25.00	98	77-123

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

LCS (P5G0039-BS1)	Prepared & Analyzed: 07/02/15									
1,1,1,2-Tetrachloroethane	18.9	0.50	ug/L	20.00	94	79-134				
1,1,1-Trichloroethane	17.0	0.50	ug/L	20.00	85	75-136				
1,1,2,2-Tetrachloroethane	16.7	0.50	ug/L	20.00	83	62-127				
1,1,2-Trichloroethane	18.0	0.50	ug/L	20.00	90	70-140				
1,1-Dichloroethane	17.7	0.50	ug/L	20.00	88	78-130				
1,1-Dichloroethylene	19.6	0.50	ug/L	20.00	98	70-154				
1,1-Dichloropropylene	20.6	0.50	ug/L	20.00	103	71-136				
1,2,3-Trichlorobenzene	20.6	2.0	ug/L	20.00	103	58-144				
1,2,3-Trichloropropane	17.6	1.0	ug/L	20.00	88	71-127				
1,2,4-Trichlorobenzene	20.3	1.0	ug/L	20.00	101	66-139				
1,2,4-Trimethylbenzene	18.8	0.50	ug/L	20.00	94	75-133				
1,2-Dibromo-3-chloropropane	17.3	2.0	ug/L	20.00	86	63-134				
1,2-Dibromoethane	19.8	0.50	ug/L	20.00	99	77-135				
1,2-Dichlorobenzene	20.1	0.50	ug/L	20.00	100	78-128				
1,2-Dichloroethane	17.3	0.50	ug/L	20.00	86	68-131				
1,2-Dichloropropane	18.0	0.50	ug/L	20.00	90	77-130				
1,3,5-Trimethylbenzene	18.9	0.50	ug/L	20.00	95	75-131				
1,3-Dichlorobenzene	20.8	0.50	ug/L	20.00	104	77-125				
1,3-Dichloropropane	19.1	0.50	ug/L	20.00	96	76-132				
1,4-Dichlorobenzene	20.4	0.50	ug/L	20.00	102	75-126				
2,2-Dichloropropane	18.0	2.0	ug/L	20.00	90	29-149				
2-Chloroethyl Vinyl Ether	7.69	5.0	ug/L	20.00	38	34-144				
2-Chlorotoluene	18.8	0.50	ug/L	20.00	94	74-126				
4-Chlorotoluene	19.1	0.50	ug/L	20.00	95	78-129				
4-Isopropyltoluene	19.6	0.50	ug/L	20.00	98	69-132				
Acetone	36.7	5.0	ug/L	40.00	92	40-166				
Acrolein	34.6	20	ug/L	40.00	87	70-130				
Acrylonitrile	40.3	20	ug/L	40.00	101	81-127				
Benzene	19.7	0.50	ug/L	20.00	99	77-128				
Bromobenzene	17.6	0.50	ug/L	20.00	88	78-129				
Bromochloromethane	17.3	0.50	ug/L	20.00	86	78-135				
Bromodichloromethane	16.4	0.50	ug/L	20.00	82	76-138				
Bromoform	17.6	1.0	ug/L	20.00	88	71-135				
Bromomethane	18.3	1.0	ug/L	20.00	91	41-168				
Carbon disulfide	21.5	5.0	ug/L	20.00	107	59-135				
Carbon Tetrachloride	18.8	0.50	ug/L	20.00	94	72-142				
Chlorobenzene	20.2	0.50	ug/L	20.00	101	78-119				
Chloroethane	20.4	0.50	ug/L	20.00	102	57-142				
Chloroform	16.4	0.50	ug/L	20.00	82	77-130				
Chloromethane	16.6	0.50	ug/L	20.00	83	47-145				
cis-1,2-Dichloroethylene	18.5	0.50	ug/L	20.00	92	76-141				
cis-1,3-Dichloropropylene	17.2	0.50	ug/L	20.00	86	65-140				
Dibromochloromethane	16.9	0.50	ug/L	20.00	84	75-134				
Dibromomethane	19.3	0.50	ug/L	20.00	97	76-138				
Dichlorodifluoromethane	19.9	1.0	ug/L	20.00	100	28-163				
Ethylbenzene	20.0	0.50	ug/L	20.00	100	80-127				

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

 Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

LCS (P5G0039-BS1)	Prepared & Analyzed: 07/02/15									
Hexachlorobutadiene	22.3	2.0	ug/L	20.00	111	61-134				
Isopropyl Ether	16.2	0.50	ug/L	20.00	81	60-154				
Isopropylbenzene (Cumene)	21.1	0.50	ug/L	20.00	106	70-130				
m,p-Xylenes	40.5	1.0	ug/L	40.00	101	77-133				
Methyl Butyl Ketone (2-Hexanone)	11.9	5.0	ug/L	20.00	59	64-137				L1
Methyl Ethyl Ketone (2-Butanone)	13.1	5.0	ug/L	20.00	66	71-134				A
Methyl Isobutyl Ketone	12.2	5.0	ug/L	20.00	61	69-134				A
Methylene Chloride	19.0	1.0	ug/L	20.00	95	73-131				
Methyl-tert-Butyl Ether	16.8	0.50	ug/L	20.00	84	68-135				
Naphthalene	17.2	1.0	ug/L	20.00	86	64-136				
n-Butylbenzene	18.7	1.0	ug/L	20.00	94	68-134				
n-Propylbenzene	19.8	0.50	ug/L	20.00	99	72-132				
o-Xylene	19.7	0.50	ug/L	20.00	99	78-128				
sec-Butylbenzene	21.2	0.50	ug/L	20.00	106	71-131				
Styrene	20.1	0.50	ug/L	20.00	101	78-129				
tert-Butylbenzene	19.6	0.50	ug/L	20.00	98	70-132				
Tetrachloroethylene	20.5	0.50	ug/L	20.00	103	80-129				
Toluene	19.6	0.50	ug/L	20.00	98	76-131				
trans-1,2-Dichloroethylene	18.6	0.50	ug/L	20.00	93	76-135				
trans-1,3-Dichloropropylene	17.1	0.50	ug/L	20.00	86	67-140				
Trichloroethylene	19.9	0.50	ug/L	20.00	99	77-133				
Trichlorofluoromethane	23.7	0.50	ug/L	20.00	119	62-148				
Vinyl acetate	19.4	2.0	ug/L	20.00	97	34-167				
Vinyl chloride	19.1	0.50	ug/L	20.00	96	57-141				
Surrogate: 4-Bromofluorobenzene	22.0		ug/L	25.00	88	80-124				
Surrogate: Dibromofluoromethane	24.9		ug/L	25.00	100	75-129				
Surrogate: Toluene-d8	24.6		ug/L	25.00	98	77-123				

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

LCS Dup (P5G0039-BSD1)	Prepared & Analyzed: 07/02/15								
1,1,1,2-Tetrachloroethane	19.1	0.50	ug/L	20.00	95	79-134	1	20	
1,1,1-Trichloroethane	18.1	0.50	ug/L	20.00	91	75-136	6	20	
1,1,2,2-Tetrachloroethane	16.7	0.50	ug/L	20.00	83	62-127	0	20	
1,1,2-Trichloroethane	17.8	0.50	ug/L	20.00	89	70-140	1	20	
1,1-Dichloroethane	18.8	0.50	ug/L	20.00	94	78-130	6	20	
1,1-Dichloroethylene	20.5	0.50	ug/L	20.00	103	70-154	5	20	
1,1-Dichloropropylene	21.5	0.50	ug/L	20.00	107	71-136	4	20	
1,2,3-Trichlorobenzene	20.4	2.0	ug/L	20.00	102	58-144	1	20	
1,2,3-Trichloropropane	17.9	1.0	ug/L	20.00	89	71-127	2	20	
1,2,4-Trichlorobenzene	20.2	1.0	ug/L	20.00	101	66-139	0.4	20	
1,2,4-Trimethylbenzene	19.1	0.50	ug/L	20.00	96	75-133	2	20	
1,2-Dibromo-3-chloropropane	15.8	2.0	ug/L	20.00	79	63-134	9	20	
1,2-Dibromoethane	20.1	0.50	ug/L	20.00	101	77-135	2	20	
1,2-Dichlorobenzene	20.4	0.50	ug/L	20.00	102	78-128	1	20	
1,2-Dichloroethane	18.0	0.50	ug/L	20.00	90	68-131	4	20	
1,2-Dichloropropane	18.6	0.50	ug/L	20.00	93	77-130	3	20	
1,3,5-Trimethylbenzene	19.5	0.50	ug/L	20.00	97	75-131	3	20	
1,3-Dichlorobenzene	21.0	0.50	ug/L	20.00	105	77-125	1	20	
1,3-Dichloropropane	19.8	0.50	ug/L	20.00	99	76-132	3	20	
1,4-Dichlorobenzene	20.5	0.50	ug/L	20.00	102	75-126	0.7	20	
2,2-Dichloropropane	18.8	2.0	ug/L	20.00	94	29-149	5	20	
2-Chloroethyl Vinyl Ether	7.49	5.0	ug/L	20.00	37	34-144	3	20	
2-Chlorotoluene	19.5	0.50	ug/L	20.00	98	74-126	3	20	
4-Chlorotoluene	19.6	0.50	ug/L	20.00	98	78-129	3	20	
4-Isopropyltoluene	20.6	0.50	ug/L	20.00	103	69-132	5	20	
Acetone	36.5	5.0	ug/L	40.00	91	40-166	0.7	20	
Acrolein	35.7	20	ug/L	40.00	89	70-130	3	20	
Acrylonitrile	39.4	20	ug/L	40.00	99	81-127	2	20	
Benzene	20.6	0.50	ug/L	20.00	103	77-128	4	20	
Bromobenzene	18.0	0.50	ug/L	20.00	90	78-129	2	20	
Bromochloromethane	17.3	0.50	ug/L	20.00	87	78-135	0.2	20	
Bromodichloromethane	16.6	0.50	ug/L	20.00	83	76-138	1	20	
Bromoform	18.0	1.0	ug/L	20.00	90	71-135	2	20	
Bromomethane	19.5	1.0	ug/L	20.00	97	41-168	6	20	
Carbon disulfide	22.5	5.0	ug/L	20.00	113	59-135	5	20	
Carbon Tetrachloride	19.9	0.50	ug/L	20.00	100	72-142	6	20	
Chlorobenzene	20.9	0.50	ug/L	20.00	105	78-119	4	20	
Chloroethane	21.1	0.50	ug/L	20.00	105	57-142	3	20	
Chloroform	16.7	0.50	ug/L	20.00	84	77-130	2	20	
Chloromethane	17.2	0.50	ug/L	20.00	86	47-145	3	20	
cis-1,2-Dichloroethylene	19.4	0.50	ug/L	20.00	97	76-141	5	20	
cis-1,3-Dichloropropylene	18.0	0.50	ug/L	20.00	90	65-140	5	20	
Dibromochloromethane	17.1	0.50	ug/L	20.00	85	75-134	1	20	
Dibromomethane	19.8	0.50	ug/L	20.00	99	76-138	3	20	
Dichlorodifluoromethane	20.6	1.0	ug/L	20.00	103	28-163	3	20	
Ethylbenzene	21.2	0.50	ug/L	20.00	106	80-127	6	20	

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0039 - 5030B										
LCS Dup (P5G0039-BSD1)										
Prepared & Analyzed: 07/02/15										
Hexachlorobutadiene	23.7	2.0	ug/L	20.00	118	61-134	6	20		
Isopropyl Ether	16.5	0.50	ug/L	20.00	83	60-154	2	20		
Isopropylbenzene (Cumene)	21.9	0.50	ug/L	20.00	110	70-130	4	20		
m,p-Xylenes	42.4	1.0	ug/L	40.00	106	77-133	4	20		
Methyl Butyl Ketone (2-Hexanone)	12.8	5.0	ug/L	20.00	64	64-137	7	20		
Methyl Ethyl Ketone (2-Butanone)	13.0	5.0	ug/L	20.00	65	71-134	0.8	20		A
Methyl Isobutyl Ketone	12.5	5.0	ug/L	20.00	63	69-134	2	20		A
Methylene Chloride	19.1	1.0	ug/L	20.00	96	73-131	0.9	20		
Methyl-tert-Butyl Ether	17.1	0.50	ug/L	20.00	85	68-135	2	20		
Naphthalene	17.2	1.0	ug/L	20.00	86	64-136	0.1	20		
n-Butylbenzene	19.5	1.0	ug/L	20.00	98	68-134	4	20		
n-Propylbenzene	20.5	0.50	ug/L	20.00	103	72-132	4	20		
o-Xylene	20.8	0.50	ug/L	20.00	104	78-128	6	20		
sec-Butylbenzene	22.1	0.50	ug/L	20.00	111	71-131	4	20		
Styrene	21.2	0.50	ug/L	20.00	106	78-129	5	20		
tert-Butylbenzene	20.4	0.50	ug/L	20.00	102	70-132	4	20		
Tetrachloroethylene	22.1	0.50	ug/L	20.00	110	80-129	7	20		
Toluene	20.7	0.50	ug/L	20.00	104	76-131	5	20		
trans-1,2-Dichloroethylene	19.4	0.50	ug/L	20.00	97	76-135	4	20		
trans-1,3-Dichloropropylene	17.0	0.50	ug/L	20.00	85	67-140	0.6	20		
Trichloroethylene	21.4	0.50	ug/L	20.00	107	77-133	8	20		
Trichlorofluoromethane	24.8	0.50	ug/L	20.00	124	62-148	4	20		
Vinyl acetate	20.0	2.0	ug/L	20.00	100	34-167	3	20		
Vinyl chloride	20.4	0.50	ug/L	20.00	102	57-141	7	20		
Surrogate: 4-Bromofluorobenzene	22.6		ug/L	25.00	90	80-124				
Surrogate: Dibromofluoromethane	25.0		ug/L	25.00	100	75-129				
Surrogate: Toluene-d8	24.4		ug/L	25.00	98	77-123				

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Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

Matrix Spike (P5G0039-MS1)	Source: 5070005-17			Prepared: 07/02/15 Analyzed: 07/03/15			
1,1,1,2-Tetrachloroethane	186	5.0	ug/L	200.0	BRL	93	78-134
1,1,1-Trichloroethane	179	5.0	ug/L	200.0	BRL	90	67-145
1,1,2,2-Tetrachloroethane	164	5.0	ug/L	200.0	BRL	82	68-123
1,1,2-Trichloroethane	189	5.0	ug/L	200.0	BRL	94	75-134
1,1-Dichloroethane	188	5.0	ug/L	200.0	0.680	94	75-134
1,1-Dichloroethylene	211	5.0	ug/L	200.0	2.04	104	65-162
1,1-Dichloropropylene	221	5.0	ug/L	200.0	BRL	110	68-140
1,2,3-Trichlorobenzene	210	20	ug/L	200.0	BRL	105	56-146
1,2,3-Trichloropropane	179	10	ug/L	200.0	BRL	89	73-122
1,2,4-Trichlorobenzene	201	10	ug/L	200.0	BRL	100	67-135
1,2,4-Trimethylbenzene	190	5.0	ug/L	200.0	BRL	95	75-131
1,2-Dibromo-3-chloropropane	155	20	ug/L	200.0	BRL	78	64-133
1,2-Dibromoethane	204	5.0	ug/L	200.0	BRL	102	80-129
1,2-Dichlorobenzene	210	5.0	ug/L	200.0	BRL	105	80-125
1,2-Dichloroethane	180	5.0	ug/L	200.0	BRL	90	69-129
1,2-Dichloropropane	183	5.0	ug/L	200.0	BRL	92	75-131
1,3,5-Trimethylbenzene	197	5.0	ug/L	200.0	BRL	99	75-131
1,3-Dichlorobenzene	207	5.0	ug/L	200.0	BRL	104	79-122
1,3-Dichloropropane	200	5.0	ug/L	200.0	BRL	100	80-125
1,4-Dichlorobenzene	207	5.0	ug/L	200.0	BRL	103	76-124
2,2-Dichloropropane	123	20	ug/L	200.0	BRL	61	21-140
2-Chloroethyl Vinyl Ether	69.6	50	ug/L	200.0	BRL	35	15-181
2-Chlorotoluene	196	5.0	ug/L	200.0	BRL	98	75-125
4-Chlorotoluene	196	5.0	ug/L	200.0	BRL	98	76-130
4-Isopropyltoluene	208	5.0	ug/L	200.0	BRL	104	72-129
Acetone	379	50	ug/L	400.0	BRL	95	40-162
Acrolein	318	200	ug/L	400.0	BRL	80	70-130
Acrylonitrile	395	200	ug/L	400.0	BRL	99	78-129
Benzene	210	5.0	ug/L	200.0	BRL	105	73-131
Bromobenzene	175	5.0	ug/L	200.0	BRL	88	80-125
Bromochloromethane	176	5.0	ug/L	200.0	BRL	88	78-135
Bromodichloromethane	167	5.0	ug/L	200.0	BRL	83	74-138
Bromoform	170	10	ug/L	200.0	BRL	85	72-130
Bromomethane	194	10	ug/L	200.0	BRL	97	41-173
Carbon disulfide	228	50	ug/L	200.0	BRL	114	59-138
Carbon Tetrachloride	194	5.0	ug/L	200.0	BRL	97	66-149
Chlorobenzene	209	5.0	ug/L	200.0	BRL	104	76-119
Chloroethane	214	5.0	ug/L	200.0	BRL	107	52-153
Chloroform	171	5.0	ug/L	200.0	BRL	86	74-136
Chloromethane	176	5.0	ug/L	200.0	BRL	88	39-155
cis-1,2-Dichloroethylene	198	5.0	ug/L	200.0	BRL	99	74-144
cis-1,3-Dichloropropylene	168	5.0	ug/L	200.0	BRL	84	64-132
Dibromochloromethane	171	5.0	ug/L	200.0	BRL	85	77-131
Dibromomethane	197	5.0	ug/L	200.0	BRL	98	76-136
Dichlorodifluoromethane	205	10	ug/L	200.0	BRL	102	22-170
Ethylbenzene	213	5.0	ug/L	200.0	BRL	107	78-130

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Froehling & Robertson, Inc. (Raleigh)
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 Raleigh, NC 27603

Project: Duke Diet & Fitness

 Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

Matrix Spike (P5G0039-MS1)	Source: 5070005-17			Prepared: 07/02/15 Analyzed: 07/03/15						
Hexachlorobutadiene	225	20	ug/L	200.0	BRL	113	63-132			
Isopropyl Ether	168	5.0	ug/L	200.0	BRL	84	62-154			
Isopropylbenzene (Cumene)	218	5.0	ug/L	200.0	BRL	109	72-127			
m,p-Xylenes	423	10	ug/L	400.0	BRL	106	66-144			
Methyl Butyl Ketone (2-Hexanone)	123	50	ug/L	200.0	BRL	62	65-130			M
Methyl Ethyl Ketone (2-Butanone)	136	50	ug/L	200.0	BRL	68	65-137			
Methyl Isobutyl Ketone	123	50	ug/L	200.0	BRL	62	64-137			M
Methylene Chloride	196	10	ug/L	200.0	BRL	98	71-134			
Methyl-tert-Butyl Ether	173	5.0	ug/L	200.0	BRL	86	71-133			
Naphthalene	172	10	ug/L	200.0	BRL	86	63-134			
n-Butylbenzene	191	10	ug/L	200.0	BRL	96	69-132			
n-Propylbenzene	206	5.0	ug/L	200.0	BRL	103	75-130			
o-Xylene	205	5.0	ug/L	200.0	BRL	102	75-131			
sec-Butylbenzene	218	5.0	ug/L	200.0	BRL	109	72-130			
Styrene	212	5.0	ug/L	200.0	BRL	106	77-128			
tert-Butylbenzene	204	5.0	ug/L	200.0	BRL	102	72-130			
Tetrachloroethylene	226	5.0	ug/L	200.0	BRL	113	76-130			
Toluene	210	5.0	ug/L	200.0	BRL	105	72-135			
trans-1,2-Dichloroethylene	195	5.0	ug/L	200.0	BRL	98	73-141			
trans-1,3-Dichloropropylene	155	5.0	ug/L	200.0	BRL	78	64-137			
Trichloroethylene	218	5.0	ug/L	200.0	BRL	109	72-133			
Trichlorofluoromethane	248	5.0	ug/L	200.0	BRL	124	61-152			
Vinyl acetate	187	20	ug/L	200.0	BRL	94	80-154			
Vinyl chloride	205	5.0	ug/L	200.0	BRL	102	54-146			
Surrogate: 4-Bromofluorobenzene	22.4		ug/L	25.00		90	80-124			
Surrogate: Dibromofluoromethane	25.0		ug/L	25.00		100	75-129			
Surrogate: Toluene-d8	24.3		ug/L	25.00		97	77-123			

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Froehling & Robertson, Inc. (Raleigh)
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310 Hubert Street
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Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

Matrix Spike Dup (P5G0039-MSD1)	Source: 5070005-17			Prepared: 07/02/15 Analyzed: 07/03/15					
1,1,1,2-Tetrachloroethane	182	5.0	ug/L	200.0	BRL	91	78-134	2	19
1,1,1-Trichloroethane	173	5.0	ug/L	200.0	BRL	86	67-145	4	18
1,1,2,2-Tetrachloroethane	164	5.0	ug/L	200.0	BRL	82	68-123	0.2	19
1,1,2-Trichloroethane	176	5.0	ug/L	200.0	BRL	88	75-134	7	18
1,1-Dichloroethane	178	5.0	ug/L	200.0	0.680	89	75-134	5	18
1,1-Dichloroethylene	206	5.0	ug/L	200.0	2.04	102	65-162	3	20
1,1-Dichloropropylene	204	5.0	ug/L	200.0	BRL	102	68-140	8	19
1,2,3-Trichlorobenzene	198	20	ug/L	200.0	BRL	99	56-146	6	31
1,2,3-Trichloropropane	177	10	ug/L	200.0	BRL	88	73-122	1	18
1,2,4-Trichlorobenzene	189	10	ug/L	200.0	BRL	94	67-135	6	20
1,2,4-Trimethylbenzene	182	5.0	ug/L	200.0	BRL	91	75-131	5	18
1,2-Dibromo-3-chloropropane	146	20	ug/L	200.0	BRL	73	64-133	6	25
1,2-Dibromoethane	201	5.0	ug/L	200.0	BRL	101	80-129	1	19
1,2-Dichlorobenzene	200	5.0	ug/L	200.0	BRL	100	80-125	5	16
1,2-Dichloroethane	174	5.0	ug/L	200.0	BRL	87	69-129	3	17
1,2-Dichloropropane	174	5.0	ug/L	200.0	BRL	87	75-131	5	17
1,3,5-Trimethylbenzene	186	5.0	ug/L	200.0	BRL	93	75-131	6	19
1,3-Dichlorobenzene	200	5.0	ug/L	200.0	BRL	100	79-122	4	17
1,3-Dichloropropane	196	5.0	ug/L	200.0	BRL	98	80-125	2	18
1,4-Dichlorobenzene	200	5.0	ug/L	200.0	BRL	100	76-124	3	17
2,2-Dichloropropane	117	20	ug/L	200.0	BRL	59	21-140	4	19
2-Chloroethyl Vinyl Ether	73.3	50	ug/L	200.0	BRL	37	15-181	5	44
2-Chlorotoluene	185	5.0	ug/L	200.0	BRL	93	75-125	6	24
4-Chlorotoluene	186	5.0	ug/L	200.0	BRL	93	76-130	5	16
4-Isopropyltoluene	197	5.0	ug/L	200.0	BRL	98	72-129	6	19
Acetone	349	50	ug/L	400.0	BRL	87	40-162	8	23
Acrolein	308	200	ug/L	400.0	BRL	77	70-130	3	20
Acrylonitrile	384	200	ug/L	400.0	BRL	96	78-129	3	20
Benzene	200	5.0	ug/L	200.0	BRL	100	73-131	5	17
Bromobenzene	168	5.0	ug/L	200.0	BRL	84	80-125	4	18
Bromochloromethane	169	5.0	ug/L	200.0	BRL	85	78-135	4	17
Bromodichloromethane	159	5.0	ug/L	200.0	BRL	80	74-138	5	19
Bromoform	168	10	ug/L	200.0	BRL	84	72-130	1	22
Bromomethane	190	10	ug/L	200.0	BRL	95	41-173	2	33
Carbon disulfide	218	50	ug/L	200.0	BRL	109	59-138	4	27
Carbon Tetrachloride	190	5.0	ug/L	200.0	BRL	95	66-149	2	23
Chlorobenzene	205	5.0	ug/L	200.0	BRL	103	76-119	2	20
Chloroethane	205	5.0	ug/L	200.0	BRL	102	52-153	4	24
Chloroform	165	5.0	ug/L	200.0	BRL	83	74-136	4	19
Chloromethane	171	5.0	ug/L	200.0	BRL	85	39-155	3	20
cis-1,2-Dichloroethylene	184	5.0	ug/L	200.0	BRL	92	74-144	7	17
cis-1,3-Dichloropropylene	163	5.0	ug/L	200.0	BRL	81	64-132	3	18
Dibromochloromethane	172	5.0	ug/L	200.0	BRL	86	77-131	0.9	21
Dibromomethane	183	5.0	ug/L	200.0	BRL	92	76-136	7	18
Dichlorodifluoromethane	201	10	ug/L	200.0	BRL	100	22-170	2	22
Ethylbenzene	203	5.0	ug/L	200.0	BRL	101	78-130	5	18

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

 Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

Matrix Spike Dup (P5G0039-MSD1)	Source: 5070005-17			Prepared: 07/02/15 Analyzed: 07/03/15						
Hexachlorobutadiene	212	20	ug/L	200.0	BRL	106	63-132	6	26	
Isopropyl Ether	159	5.0	ug/L	200.0	BRL	80	62-154	5	18	
Isopropylbenzene (Cumene)	207	5.0	ug/L	200.0	BRL	103	72-127	5	19	
m,p-Xylenes	408	10	ug/L	400.0	BRL	102	66-144	4	19	
Methyl Butyl Ketone (2-Hexanone)	129	50	ug/L	200.0	BRL	65	65-130	5	23	
Methyl Ethyl Ketone (2-Butanone)	130	50	ug/L	200.0	BRL	65	65-137	4	23	
Methyl Isobutyl Ketone	116	50	ug/L	200.0	BRL	58	64-137	6	24	M
Methylene Chloride	186	10	ug/L	200.0	BRL	93	71-134	5	17	
Methyl-tert-Butyl Ether	167	5.0	ug/L	200.0	BRL	84	71-133	3	19	
Naphthalene	172	10	ug/L	200.0	BRL	86	63-134	0.1	32	
n-Butylbenzene	180	10	ug/L	200.0	BRL	90	69-132	6	21	
n-Propylbenzene	194	5.0	ug/L	200.0	BRL	97	75-130	6	18	
o-Xylene	194	5.0	ug/L	200.0	BRL	97	75-131	6	20	
sec-Butylbenzene	212	5.0	ug/L	200.0	BRL	106	72-130	3	20	
Styrene	203	5.0	ug/L	200.0	BRL	102	77-128	4	17	
tert-Butylbenzene	198	5.0	ug/L	200.0	BRL	99	72-130	3	20	
Tetrachloroethylene	213	5.0	ug/L	200.0	BRL	107	76-130	6	20	
Toluene	202	5.0	ug/L	200.0	BRL	101	72-135	4	18	
trans-1,2-Dichloroethylene	187	5.0	ug/L	200.0	BRL	94	73-141	4	18	
trans-1,3-Dichloropropylene	150	5.0	ug/L	200.0	BRL	75	64-137	4	21	
Trichloroethylene	210	5.0	ug/L	200.0	BRL	105	72-133	4	17	
Trichlorofluoromethane	245	5.0	ug/L	200.0	BRL	123	61-152	1	27	
Vinyl acetate	183	20	ug/L	200.0	BRL	92	80-154	2	18	
Vinyl chloride	196	5.0	ug/L	200.0	BRL	98	54-146	4	25	
Surrogate: 4-Bromofluorobenzene	21.9		ug/L	25.00		87	80-124			
Surrogate: Dibromofluoromethane	25.3		ug/L	25.00		101	75-129			
Surrogate: Toluene-d8	24.6		ug/L	25.00		98	77-123			

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Project: Duke Diet & Fitness

Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0040 - 5035

Blank (P5G0040-BLK1)

Prepared & Analyzed: 07/02/15

1,1,1,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,1-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	BRL	0.0050	mg/kg wet							
1,1,2-Trichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethane	BRL	0.0050	mg/kg wet							
1,1-Dichloroethylene	BRL	0.0050	mg/kg wet							
1,1-Dichloropropylene	BRL	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,3-Trichloropropane	BRL	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	BRL	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,2-Dibromoethane	BRL	0.0050	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,2-Dichloroethane	BRL	0.0050	mg/kg wet							
1,2-Dichloropropane	BRL	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	BRL	0.0050	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.0050	mg/kg wet							
1,3-Dichloropropane	BRL	0.0050	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.0050	mg/kg wet							
2,2-Dichloropropane	BRL	0.0050	mg/kg wet							
2-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Chlorotoluene	BRL	0.0050	mg/kg wet							
4-Isopropyltoluene	BRL	0.0050	mg/kg wet							
Acetone	BRL	0.050	mg/kg wet							
Benzene	BRL	0.0030	mg/kg wet							
Bromobenzene	BRL	0.0050	mg/kg wet							
Bromochloromethane	BRL	0.0050	mg/kg wet							
Bromodichloromethane	BRL	0.0050	mg/kg wet							
Bromoform	BRL	0.0050	mg/kg wet							
Bromomethane	BRL	0.010	mg/kg wet							
Carbon Tetrachloride	BRL	0.0050	mg/kg wet							
Chlorobenzene	BRL	0.0050	mg/kg wet							
Chloroethane	BRL	0.010	mg/kg wet							
Chloroform	BRL	0.0050	mg/kg wet							
Chloromethane	BRL	0.0050	mg/kg wet							
cis-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet							
cis-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet							
Dibromochloromethane	BRL	0.0050	mg/kg wet							
Dichlorodifluoromethane	BRL	0.0050	mg/kg wet							
Ethylbenzene	BRL	0.0050	mg/kg wet							
Isopropyl Ether	BRL	0.0050	mg/kg wet							
Isopropylbenzene (Cumene)	BRL	0.0050	mg/kg wet							
m,p-Xylenes	BRL	0.010	mg/kg wet							
Methyl Butyl Ketone (2-Hexanone)	BRL	0.050	mg/kg wet							
Methyl Ethyl Ketone (2-Butanone)	BRL	0.10	mg/kg wet							
Methyl Isobutyl Ketone	BRL	0.050	mg/kg wet							

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
Batch P5G0040 - 5035									
Blank (P5G0040-BLK1)									
Prepared & Analyzed: 07/02/15									
Methylene Chloride	BRL	0.0050	mg/kg wet						
Methyl-tert-Butyl Ether	BRL	0.010	mg/kg wet						
Naphthalene	BRL	0.010	mg/kg wet						
n-Butylbenzene	BRL	0.0050	mg/kg wet						
n-Propylbenzene	BRL	0.0050	mg/kg wet						
o-Xylene	BRL	0.0050	mg/kg wet						
sec-Butylbenzene	BRL	0.0050	mg/kg wet						
Styrene	BRL	0.0050	mg/kg wet						
tert-Butylbenzene	BRL	0.0050	mg/kg wet						
Tetrachloroethylene	BRL	0.0050	mg/kg wet						
Toluene	BRL	0.0050	mg/kg wet						
trans-1,2-Dichloroethylene	BRL	0.0050	mg/kg wet						
trans-1,3-Dichloropropylene	BRL	0.0050	mg/kg wet						
Trichloroethylene	BRL	0.0050	mg/kg wet						
Trichlorofluoromethane	BRL	0.0050	mg/kg wet						
Vinyl acetate	BRL	0.025	mg/kg wet						
Vinyl chloride	BRL	0.0050	mg/kg wet						
Xylenes, total	BRL	0.015	mg/kg wet						
Surrogate: 4-Bromofluorobenzene	0.0587		mg/kg wet	0.05000		117	70-130		
Surrogate: Dibromofluoromethane	0.0503		mg/kg wet	0.05000		101	84-123		
Surrogate: Toluene-d8	0.0489		mg/kg wet	0.05000		98	76-129		
LCS (P5G0040-BS1)									
Prepared & Analyzed: 07/02/15									
1,1,1,2-Tetrachloroethane	0.0546	0.0050	mg/kg wet	0.05000		109	72-115		
1,1,1-Trichloroethane	0.0537	0.0050	mg/kg wet	0.05000		107	67-131		
1,1,2,2-Tetrachloroethane	0.0502	0.0050	mg/kg wet	0.05000		100	56-126		
1,1,2-Trichloroethane	0.0523	0.0050	mg/kg wet	0.05000		105	70-133		
1,1-Dichloroethane	0.0483	0.0050	mg/kg wet	0.05000		97	74-127		
1,1-Dichloroethylene	0.0539	0.0050	mg/kg wet	0.05000		108	67-149		
1,1-Dichloropropylene	0.0547	0.0050	mg/kg wet	0.05000		109	71-130		
1,2,3-Trichlorobenzene	0.0577	0.0050	mg/kg wet	0.05000		115	68-130		
1,2,3-Trichloropropane	0.0496	0.0050	mg/kg wet	0.05000		99	60-137		
1,2,4-Trichlorobenzene	0.0539	0.0050	mg/kg wet	0.05000		108	66-125		
1,2,4-Trimethylbenzene	0.0539	0.0050	mg/kg wet	0.05000		108	69-129		
1,2-Dibromoethane	0.0556	0.0050	mg/kg wet	0.05000		111	70-132		
1,2-Dichlorobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	72-123		
1,2-Dichloroethane	0.0528	0.0050	mg/kg wet	0.05000		106	68-128		
1,2-Dichloropropane	0.0478	0.0050	mg/kg wet	0.05000		96	73-130		
1,3,5-Trimethylbenzene	0.0528	0.0050	mg/kg wet	0.05000		106	69-128		
1,3-Dichlorobenzene	0.0518	0.0050	mg/kg wet	0.05000		104	71-120		
1,3-Dichloropropane	0.0518	0.0050	mg/kg wet	0.05000		104	75-124		
1,4-Dichlorobenzene	0.0525	0.0050	mg/kg wet	0.05000		105	71-123		
2,2-Dichloropropane	0.0523	0.0050	mg/kg wet	0.05000		105	50-142		
2-Chlorotoluene	0.0533	0.0050	mg/kg wet	0.05000		107	67-124		
4-Chlorotoluene	0.0545	0.0050	mg/kg wet	0.05000		109	71-126		
4-Isopropyltoluene	0.0551	0.0050	mg/kg wet	0.05000		110	68-129		
Acetone	0.0944	0.050	mg/kg wet	0.1000		94	29-198		

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch P5G0040 - 5035										
LCS (P5G0040-BS1)										
Prepared & Analyzed: 07/02/15										
Benzene	0.0545	0.0030	mg/kg wet	0.05000	109	74-127				
Bromobenzene	0.0519	0.0050	mg/kg wet	0.05000	104	73-125				
Bromochloromethane	0.0568	0.0050	mg/kg wet	0.05000	114	72-134				
Bromodichloromethane	0.0496	0.0050	mg/kg wet	0.05000	99	75-122				
Bromoform	0.0526	0.0050	mg/kg wet	0.05000	105	66-135				
Bromomethane	0.0538	0.010	mg/kg wet	0.05000	108	20-180				
Carbon Tetrachloride	0.0589	0.0050	mg/kg wet	0.05000	118	64-143				
Chlorobenzene	0.0531	0.0050	mg/kg wet	0.05000	106	74-118				
Chloroethane	0.0505	0.010	mg/kg wet	0.05000	101	33-149				
Chloroform	0.0485	0.0050	mg/kg wet	0.05000	97	73-127				
Chloromethane	0.0461	0.0050	mg/kg wet	0.05000	92	45-143				
cis-1,2-Dichloroethylene	0.0511	0.0050	mg/kg wet	0.05000	102	76-134				
cis-1,3-Dichloropropylene	0.0506	0.0050	mg/kg wet	0.05000	101	71-125				
Dibromochloromethane	0.0517	0.0050	mg/kg wet	0.05000	103	73-122				
Dichlorodifluoromethane	0.0484	0.0050	mg/kg wet	0.05000	97	26-146				
Ethylbenzene	0.0554	0.0050	mg/kg wet	0.05000	111	74-128				
Isopropyl Ether	0.0447	0.0050	mg/kg wet	0.05000	89	59-159				
Isopropylbenzene (Cumene)	0.0551	0.0050	mg/kg wet	0.05000	110	68-126				
m,p-Xylenes	0.111	0.010	mg/kg wet	0.1000	111	75-124				
Methyl Butyl Ketone (2-Hexanone)	0.0494	0.050	mg/kg wet	0.05000	99	61-157				J
Methyl Ethyl Ketone (2-Butanone)	0.0492	0.10	mg/kg wet	0.05000	98	63-149				J
Methyl Isobutyl Ketone	0.0451	0.050	mg/kg wet	0.05000	90	57-162				J
Methylene Chloride	0.0485	0.0050	mg/kg wet	0.05000	97	74-129				
Methyl-tert-Butyl Ether	0.0493	0.010	mg/kg wet	0.05000	99	70-130				
Naphthalene	0.0542	0.010	mg/kg wet	0.05000	108	57-157				
n-Butylbenzene	0.0540	0.0050	mg/kg wet	0.05000	108	65-135				
n-Propylbenzene	0.0526	0.0050	mg/kg wet	0.05000	105	67-130				
o-Xylene	0.0560	0.0050	mg/kg wet	0.05000	112	74-126				
sec-Butylbenzene	0.0520	0.0050	mg/kg wet	0.05000	104	66-131				
Styrene	0.0563	0.0050	mg/kg wet	0.05000	113	77-121				
tert-Butylbenzene	0.0542	0.0050	mg/kg wet	0.05000	108	67-132				
Tetrachloroethylene	0.0551	0.0050	mg/kg wet	0.05000	110	68-130				
Toluene	0.0561	0.0050	mg/kg wet	0.05000	112	71-129				
trans-1,2-Dichloroethylene	0.0525	0.0050	mg/kg wet	0.05000	105	73-132				
trans-1,3-Dichloropropylene	0.0542	0.0050	mg/kg wet	0.05000	108	68-123				
Trichloroethylene	0.0527	0.0050	mg/kg wet	0.05000	105	75-133				
Trichlorofluoromethane	0.0455	0.0050	mg/kg wet	0.05000	91	44-146				
Vinyl acetate	0.0446	0.025	mg/kg wet	0.05000	89	85-161				
Vinyl chloride	0.0495	0.0050	mg/kg wet	0.05000	99	48-147				
Xylenes, total	0.167	0.015	mg/kg wet	0.1500	111	74-126				
Surrogate: 4-Bromofluorobenzene	0.0515		mg/kg wet	0.05000	103	70-130				
Surrogate: Dibromofluoromethane	0.0522		mg/kg wet	0.05000	104	84-123				
Surrogate: Toluene-d8	0.0536		mg/kg wet	0.05000	107	76-129				

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Froehling & Robertson, Inc. (Raleigh)
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310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
Batch P5G0040 - 5035									
LCS Dup (P5G0040-BSD1)									
Prepared & Analyzed: 07/02/15									
1,1,1,2-Tetrachloroethane	0.0511	0.0050	mg/kg wet	0.05000	102	72-115	7	20	
1,1,1-Trichloroethane	0.0492	0.0050	mg/kg wet	0.05000	98	67-131	9	20	
1,1,2,2-Tetrachloroethane	0.0492	0.0050	mg/kg wet	0.05000	98	56-126	2	20	
1,1,2-Trichloroethane	0.0481	0.0050	mg/kg wet	0.05000	96	70-133	8	20	
1,1-Dichloroethane	0.0459	0.0050	mg/kg wet	0.05000	92	74-127	5	20	
1,1-Dichloroethylene	0.0511	0.0050	mg/kg wet	0.05000	102	67-149	5	20	
1,1-Dichloropropylene	0.0520	0.0050	mg/kg wet	0.05000	104	71-130	5	20	
1,2,3-Trichlorobenzene	0.0553	0.0050	mg/kg wet	0.05000	111	68-130	4	20	
1,2,3-Trichloropropane	0.0482	0.0050	mg/kg wet	0.05000	96	60-137	3	20	
1,2,4-Trichlorobenzene	0.0571	0.0050	mg/kg wet	0.05000	114	66-125	6	20	
1,2,4-Trimethylbenzene	0.0561	0.0050	mg/kg wet	0.05000	112	69-129	4	20	
1,2-Dibromoethane	0.0499	0.0050	mg/kg wet	0.05000	100	70-132	11	20	
1,2-Dichlorobenzene	0.0527	0.0050	mg/kg wet	0.05000	105	72-123	1	20	
1,2-Dichloroethane	0.0484	0.0050	mg/kg wet	0.05000	97	68-128	9	20	
1,2-Dichloropropane	0.0458	0.0050	mg/kg wet	0.05000	92	73-130	4	20	
1,3,5-Trimethylbenzene	0.0571	0.0050	mg/kg wet	0.05000	114	69-128	8	20	
1,3-Dichlorobenzene	0.0515	0.0050	mg/kg wet	0.05000	103	71-120	0.6	20	
1,3-Dichloropropane	0.0480	0.0050	mg/kg wet	0.05000	96	75-124	7	20	
1,4-Dichlorobenzene	0.0529	0.0050	mg/kg wet	0.05000	106	71-123	0.6	20	
2,2-Dichloropropane	0.0500	0.0050	mg/kg wet	0.05000	100	50-142	4	20	
2-Chlorotoluene	0.0561	0.0050	mg/kg wet	0.05000	112	67-124	5	20	
4-Chlorotoluene	0.0542	0.0050	mg/kg wet	0.05000	108	71-126	0.6	20	
4-Isopropyltoluene	0.0535	0.0050	mg/kg wet	0.05000	107	68-129	3	20	
Acetone	0.0795	0.050	mg/kg wet	0.1000	80	29-198	17	20	
Benzene	0.0528	0.0030	mg/kg wet	0.05000	106	74-127	3	20	
Bromobenzene	0.0537	0.0050	mg/kg wet	0.05000	107	73-125	3	20	
Bromochloromethane	0.0529	0.0050	mg/kg wet	0.05000	106	72-134	7	20	
Bromodichloromethane	0.0467	0.0050	mg/kg wet	0.05000	93	75-122	6	20	
Bromoform	0.0460	0.0050	mg/kg wet	0.05000	92	66-135	14	20	
Bromomethane	0.0519	0.010	mg/kg wet	0.05000	104	20-180	4	20	
Carbon Tetrachloride	0.0554	0.0050	mg/kg wet	0.05000	111	64-143	6	20	
Chlorobenzene	0.0511	0.0050	mg/kg wet	0.05000	102	74-118	4	20	
Chloroethane	0.0451	0.010	mg/kg wet	0.05000	90	33-149	11	20	
Chloroform	0.0463	0.0050	mg/kg wet	0.05000	93	73-127	5	20	
Chloromethane	0.0438	0.0050	mg/kg wet	0.05000	88	45-143	5	20	
cis-1,2-Dichloroethylene	0.0495	0.0050	mg/kg wet	0.05000	99	76-134	3	20	
cis-1,3-Dichloropropylene	0.0484	0.0050	mg/kg wet	0.05000	97	71-125	5	20	
Dibromochloromethane	0.0477	0.0050	mg/kg wet	0.05000	95	73-122	8	20	
Dichlorodifluoromethane	0.0472	0.0050	mg/kg wet	0.05000	94	26-146	3	20	
Ethylbenzene	0.0525	0.0050	mg/kg wet	0.05000	105	74-128	5	20	
Isopropyl Ether	0.0418	0.0050	mg/kg wet	0.05000	84	59-159	7	20	
Isopropylbenzene (Cumene)	0.0586	0.0050	mg/kg wet	0.05000	117	68-126	6	20	
m,p-Xylenes	0.105	0.010	mg/kg wet	0.1000	105	75-124	5	20	
Methyl Butyl Ketone (2-Hexanone)	0.0392	0.050	mg/kg wet	0.05000	78	61-157	23	20	D, J
Methyl Ethyl Ketone (2-Butanone)	0.0413	0.10	mg/kg wet	0.05000	83	63-149	18	20	J
Methyl Isobutyl Ketone	0.0363	0.050	mg/kg wet	0.05000	73	57-162	21	20	D, J

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0040 - 5035										
LCS Dup (P5G0040-BSD1)										
Prepared & Analyzed: 07/02/15										
Methylene Chloride	0.0452	0.0050	mg/kg wet	0.05000	90	74-129	7	20		
Methyl-tert-Butyl Ether	0.0447	0.010	mg/kg wet	0.05000	89	70-130	10	20		
Naphthalene	0.0506	0.010	mg/kg wet	0.05000	101	57-157	7	20		
n-Butylbenzene	0.0552	0.0050	mg/kg wet	0.05000	110	65-135	2	20		
n-Propylbenzene	0.0564	0.0050	mg/kg wet	0.05000	113	67-130	7	20		
o-Xylene	0.0520	0.0050	mg/kg wet	0.05000	104	74-126	7	20		
sec-Butylbenzene	0.0532	0.0050	mg/kg wet	0.05000	106	66-131	2	20		
Styrene	0.0526	0.0050	mg/kg wet	0.05000	105	77-121	7	20		
tert-Butylbenzene	0.0537	0.0050	mg/kg wet	0.05000	107	67-132	0.9	20		
Tetrachloroethylene	0.0523	0.0050	mg/kg wet	0.05000	105	68-130	5	20		
Toluene	0.0527	0.0050	mg/kg wet	0.05000	105	71-129	6	20		
trans-1,2-Dichloroethylene	0.0482	0.0050	mg/kg wet	0.05000	96	73-132	9	20		
trans-1,3-Dichloropropylene	0.0485	0.0050	mg/kg wet	0.05000	97	68-123	11	20		
Trichloroethylene	0.0518	0.0050	mg/kg wet	0.05000	104	75-133	2	20		
Trichlorofluoromethane	0.0438	0.0050	mg/kg wet	0.05000	88	44-146	4	20		
Vinyl acetate	0.0397	0.025	mg/kg wet	0.05000	79	85-161	12	20	L2	
Vinyl chloride	0.0476	0.0050	mg/kg wet	0.05000	95	48-147	4	20		
Xylenes, total	0.157	0.015	mg/kg wet	0.1500	105	74-126	6	20		
Surrogate: 4-Bromofluorobenzene	0.0521		mg/kg wet	0.05000	104	70-130				
Surrogate: Dibromofluoromethane	0.0498		mg/kg wet	0.05000	100	84-123				
Surrogate: Toluene-d8	0.0527		mg/kg wet	0.05000	105	76-129				
Matrix Spike (P5G0040-MS1)										
Source: 5070005-11 Prepared & Analyzed: 07/02/15										
1,1,1,2-Tetrachloroethane	0.0281	0.0054	mg/kg dry	0.05410	BRL	52	60-120			MI
1,1,1-Trichloroethane	0.0376	0.0054	mg/kg dry	0.05410	BRL	70	52-139			
1,1,2,2-Tetrachloroethane	0.0304	0.0054	mg/kg dry	0.05410	BRL	56	39-135			
1,1,2-Trichloroethane	0.0334	0.0054	mg/kg dry	0.05410	BRL	62	44-140			
1,1-Dichloroethane	0.0344	0.0054	mg/kg dry	0.05410	BRL	64	59-137			
1,1-Dichloroethylene	0.0350	0.0054	mg/kg dry	0.05410	BRL	65	54-162			
1,1-Dichloropropylene	0.0320	0.0054	mg/kg dry	0.05410	BRL	59	55-137			
1,2,3-Trichlorobenzene	0.00800	0.0054	mg/kg dry	0.05410	BRL	15	34-120			MI
1,2,3-Trichloropropane	0.0239	0.0054	mg/kg dry	0.05410	BRL	44	45-139			MI
1,2,4-Trichlorobenzene	0.00804	0.0054	mg/kg dry	0.05410	BRL	15	35-116			MI
1,2,4-Trimethylbenzene	0.0189	0.0054	mg/kg dry	0.05410	BRL	35	38-142			MI
1,2-Dibromoethane	0.0274	0.0054	mg/kg dry	0.05410	BRL	51	49-132			
1,2-Dichlorobenzene	0.0150	0.0054	mg/kg dry	0.05410	BRL	28	42-130			MI
1,2-Dichloroethane	0.0339	0.0054	mg/kg dry	0.05410	BRL	63	51-131			
1,2-Dichloropropane	0.0319	0.0054	mg/kg dry	0.05410	BRL	59	55-138			
1,3,5-Trimethylbenzene	0.0201	0.0054	mg/kg dry	0.05410	BRL	37	44-140			MI
1,3-Dichlorobenzene	0.0145	0.0054	mg/kg dry	0.05410	BRL	27	41-129			MI
1,3-Dichloropropane	0.0295	0.0054	mg/kg dry	0.05410	BRL	55	53-129			
1,4-Dichlorobenzene	0.0140	0.0054	mg/kg dry	0.05410	BRL	26	44-134			MI
2,2-Dichloropropane	0.0367	0.0054	mg/kg dry	0.05410	BRL	68	30-147			
2-Chlorotoluene	0.0208	0.0054	mg/kg dry	0.05410	BRL	39	46-132			MI
4-Chlorotoluene	0.0177	0.0054	mg/kg dry	0.05410	BRL	33	44-135			MI
4-Isopropyltoluene	0.0172	0.0054	mg/kg dry	0.05410	BRL	32	32-144			
Acetone	0.0841	0.054	mg/kg dry	0.1082	0.0799	4	34-143			MI

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0040 - 5035

Matrix Spike (P5G0040-MS1)	Source: 5070005-11			Prepared & Analyzed: 07/02/15						
Benzene	0.0364	0.0032	mg/kg dry	0.05410	BRL	67	60-135			
Bromobenzene	0.0206	0.0054	mg/kg dry	0.05410	BRL	38	45-135			MI
Bromochloromethane	0.0357	0.0054	mg/kg dry	0.05410	BRL	66	55-136			
Bromodichloromethane	0.0310	0.0054	mg/kg dry	0.05410	BRL	57	55-127			
Bromoform	0.0252	0.0054	mg/kg dry	0.05410	BRL	47	40-136			
Bromomethane	0.0279	0.011	mg/kg dry	0.05410	BRL	51	30-137			
Carbon Tetrachloride	0.0387	0.0054	mg/kg dry	0.05410	BRL	72	48-153			
Chlorobenzene	0.0231	0.0054	mg/kg dry	0.05410	BRL	43	57-125			MI
Chloroethane	0.0329	0.011	mg/kg dry	0.05410	BRL	61	16-177			
Chloroform	0.0330	0.0054	mg/kg dry	0.05410	BRL	61	56-137			
Chloromethane	0.0360	0.0054	mg/kg dry	0.05410	BRL	67	40-145			
cis-1,2-Dichloroethylene	0.0317	0.0054	mg/kg dry	0.05410	BRL	59	58-140			
cis-1,3-Dichloropropylene	0.0179	0.0054	mg/kg dry	0.05410	BRL	33	42-135			MI
Dibromochloromethane	0.0272	0.0054	mg/kg dry	0.05410	BRL	50	49-127			
Dichlorodifluoromethane	0.0382	0.0054	mg/kg dry	0.05410	BRL	71	25-151			
Ethylbenzene	0.0257	0.0054	mg/kg dry	0.05410	BRL	47	44-144			
Isopropyl Ether	0.0302	0.0054	mg/kg dry	0.05410	BRL	56	51-155			
Isopropylbenzene (Cumene)	0.0251	0.0054	mg/kg dry	0.05410	BRL	46	41-140			
m,p-Xylenes	0.0476	0.011	mg/kg dry	0.1082	BRL	44	36-148			
Methyl Butyl Ketone (2-Hexanone)	0.00348	0.054	mg/kg dry	0.05410	BRL	6	30-147			MI, J
Methyl Ethyl Ketone (2-Butanone)	0.0205	0.11	mg/kg dry	0.05410	BRL	38	24-160			J
Methyl Isobutyl Ketone	0.0139	0.054	mg/kg dry	0.05410	BRL	26	25-163			J
Methylene Chloride	0.0378	0.0054	mg/kg dry	0.05410	BRL	70	53-144			
Methyl-tert-Butyl Ether	0.0350	0.011	mg/kg dry	0.05410	BRL	65	49-135			
Naphthalene	0.0101	0.011	mg/kg dry	0.05410	BRL	19	32-127			MI, J
n-Butylbenzene	0.0132	0.0054	mg/kg dry	0.05410	BRL	24	23-148			
n-Propylbenzene	0.0202	0.0054	mg/kg dry	0.05410	BRL	37	35-144			
o-Xylene	0.0248	0.0054	mg/kg dry	0.05410	BRL	46	43-143			
sec-Butylbenzene	0.0179	0.0054	mg/kg dry	0.05410	BRL	33	34-144			MI
Styrene	0.0148	0.0054	mg/kg dry	0.05410	BRL	27	42-132			MI
tert-Butylbenzene	0.0207	0.0054	mg/kg dry	0.05410	BRL	38	36-150			
Tetrachloroethylene	0.0262	0.0054	mg/kg dry	0.05410	BRL	48	47-142			
Toluene	0.0307	0.0054	mg/kg dry	0.05410	BRL	57	57-135			
trans-1,2-Dichloroethylene	0.0301	0.0054	mg/kg dry	0.05410	BRL	56	58-141			MI
trans-1,3-Dichloropropylene	0.0194	0.0054	mg/kg dry	0.05410	BRL	36	41-124			MI
Trichloroethylene	0.0295	0.0054	mg/kg dry	0.05410	BRL	55	38-164			
Trichlorofluoromethane	0.0356	0.0054	mg/kg dry	0.05410	BRL	66	30-157			
Vinyl acetate	BRL	0.027	mg/kg dry	0.05410	BRL		61-154			MI
Vinyl chloride	0.0362	0.0054	mg/kg dry	0.05410	BRL	67	40-156			
Xylenes, total	0.0724	0.016	mg/kg dry	0.1623	BRL	45	36-148			
Surrogate: 4-Bromofluorobenzene	0.0590		mg/kg dry	0.05410		109	70-130			
Surrogate: Dibromofluoromethane	0.0603		mg/kg dry	0.05410		111	84-123			
Surrogate: Toluene-d8	0.0556		mg/kg dry	0.05410		103	76-129			

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0040 - 5035

Matrix Spike Dup (P5G0040-MSD1)	Source: 5070005-11			Prepared & Analyzed: 07/02/15						
1,1,1,2-Tetrachloroethane	0.0293	0.0055	mg/kg dry	0.05475	BRL	53	60-120	4	15	MI
1,1,1-Trichloroethane	0.0393	0.0055	mg/kg dry	0.05475	BRL	72	52-139	4	21	
1,1,2,2-Tetrachloroethane	0.0292	0.0055	mg/kg dry	0.05475	BRL	53	39-135	4	22	
1,1,2-Trichloroethane	0.0322	0.0055	mg/kg dry	0.05475	BRL	59	44-140	4	21	
1,1-Dichloroethane	0.0355	0.0055	mg/kg dry	0.05475	BRL	65	59-137	3	21	
1,1-Dichloroethylene	0.0378	0.0055	mg/kg dry	0.05475	BRL	69	54-162	8	22	
1,1-Dichloropropylene	0.0339	0.0055	mg/kg dry	0.05475	BRL	62	55-137	6	19	
1,2,3-Trichlorobenzene	0.00801	0.0055	mg/kg dry	0.05475	BRL	15	34-120	0.2	41	MI
1,2,3-Trichloropropane	0.0237	0.0055	mg/kg dry	0.05475	BRL	43	45-139	1	25	MI
1,2,4-Trichlorobenzene	0.00855	0.0055	mg/kg dry	0.05475	BRL	16	35-116	6	62	MI
1,2,4-Trimethylbenzene	0.0215	0.0055	mg/kg dry	0.05475	BRL	39	38-142	13	24	
1,2-Dibromoethane	0.0269	0.0055	mg/kg dry	0.05475	BRL	49	49-132	2	15	
1,2-Dichlorobenzene	0.0162	0.0055	mg/kg dry	0.05475	BRL	30	42-130	7	21	MI
1,2-Dichloroethane	0.0339	0.0055	mg/kg dry	0.05475	BRL	62	51-131	0.2	13	
1,2-Dichloropropane	0.0327	0.0055	mg/kg dry	0.05475	BRL	60	55-138	3	16	
1,3,5-Trimethylbenzene	0.0231	0.0055	mg/kg dry	0.05475	BRL	42	44-140	14	29	MI
1,3-Dichlorobenzene	0.0159	0.0055	mg/kg dry	0.05475	BRL	29	41-129	9	24	MI
1,3-Dichloropropane	0.0291	0.0055	mg/kg dry	0.05475	BRL	53	53-129	2	15	
1,4-Dichlorobenzene	0.0152	0.0055	mg/kg dry	0.05475	BRL	28	44-134	8	21	MI
2,2-Dichloropropane	0.0377	0.0055	mg/kg dry	0.05475	BRL	69	30-147	3	20	
2-Chlorotoluene	0.0232	0.0055	mg/kg dry	0.05475	BRL	42	46-132	11	29	MI
4-Chlorotoluene	0.0202	0.0055	mg/kg dry	0.05475	BRL	37	44-135	13	23	MI
4-Isopropyltoluene	0.0204	0.0055	mg/kg dry	0.05475	BRL	37	32-144	17	22	
Acetone	0.0722	0.055	mg/kg dry	0.1095	0.0799	NR	34-143	15	49	MI
Benzene	0.0373	0.0033	mg/kg dry	0.05475	BRL	68	60-135	3	20	
Bromobenzene	0.0214	0.0055	mg/kg dry	0.05475	BRL	39	45-135	4	25	MI
Bromochloromethane	0.0354	0.0055	mg/kg dry	0.05475	BRL	65	55-136	0.7	18	
Bromodichloromethane	0.0304	0.0055	mg/kg dry	0.05475	BRL	55	55-127	2	17	
Bromoform	0.0248	0.0055	mg/kg dry	0.05475	BRL	45	40-136	1	35	
Bromomethane	0.0321	0.011	mg/kg dry	0.05475	BRL	59	30-137	14	30	
Carbon Tetrachloride	0.0411	0.0055	mg/kg dry	0.05475	BRL	75	48-153	6	23	
Chlorobenzene	0.0237	0.0055	mg/kg dry	0.05475	BRL	43	57-125	3	14	MI
Chloroethane	0.0359	0.011	mg/kg dry	0.05475	BRL	66	16-177	9	47	
Chloroform	0.0332	0.0055	mg/kg dry	0.05475	BRL	61	56-137	0.4	18	
Chloromethane	0.0374	0.0055	mg/kg dry	0.05475	BRL	68	40-145	4	26	
cis-1,2-Dichloroethylene	0.0321	0.0055	mg/kg dry	0.05475	BRL	59	58-140	1	28	
cis-1,3-Dichloropropylene	0.0193	0.0055	mg/kg dry	0.05475	BRL	35	42-135	7	32	MI
Dibromochloromethane	0.0271	0.0055	mg/kg dry	0.05475	BRL	49	49-127	0.3	24	
Dichlorodifluoromethane	0.0408	0.0055	mg/kg dry	0.05475	BRL	75	25-151	7	37	
Ethylbenzene	0.0269	0.0055	mg/kg dry	0.05475	BRL	49	44-144	5	19	
Isopropyl Ether	0.0297	0.0055	mg/kg dry	0.05475	BRL	54	51-155	2	13	
Isopropylbenzene (Cumene)	0.0286	0.0055	mg/kg dry	0.05475	BRL	52	41-140	13	27	
m,p-Xylenes	0.0517	0.011	mg/kg dry	0.1095	BRL	47	36-148	8	20	
Methyl Butyl Ketone (2-Hexanone)	0.00431	0.055	mg/kg dry	0.05475	BRL	8	30-147	21	42	MI, J
Methyl Ethyl Ketone (2-Butanone)	0.0181	0.11	mg/kg dry	0.05475	BRL	33	24-160	13	42	J
Methyl Isobutyl Ketone	0.0156	0.055	mg/kg dry	0.05475	BRL	28	25-163	12	44	J

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0040 - 5035

Matrix Spike Dup (P5G0040-MSD1)	Source: 5070005-11			Prepared & Analyzed: 07/02/15						
Methylene Chloride	0.0367	0.0055	mg/kg dry	0.05475	BRL	67	53-144	3	14	
Methyl-tert-Butyl Ether	0.0361	0.011	mg/kg dry	0.05475	BRL	66	49-135	3	22	
Naphthalene	0.0102	0.011	mg/kg dry	0.05475	BRL	19	32-127	0.9	44	MI, J
n-Butylbenzene	0.0159	0.0055	mg/kg dry	0.05475	BRL	29	23-148	18	39	
n-Propylbenzene	0.0230	0.0055	mg/kg dry	0.05475	BRL	42	35-144	13	27	
o-Xylene	0.0259	0.0055	mg/kg dry	0.05475	BRL	47	43-143	4	17	
sec-Butylbenzene	0.0210	0.0055	mg/kg dry	0.05475	BRL	38	34-144	16	28	
Styrene	0.0171	0.0055	mg/kg dry	0.05475	BRL	31	42-132	15	28	MI
tert-Butylbenzene	0.0238	0.0055	mg/kg dry	0.05475	BRL	43	36-150	14	29	
Tetrachloroethylene	0.0272	0.0055	mg/kg dry	0.05475	BRL	50	47-142	4	26	
Toluene	0.0331	0.0055	mg/kg dry	0.05475	BRL	60	57-135	8	22	
trans-1,2-Dichloroethylene	0.0323	0.0055	mg/kg dry	0.05475	BRL	59	58-141	7	18	
trans-1,3-Dichloropropylene	0.0195	0.0055	mg/kg dry	0.05475	BRL	36	41-124	0.5	20	MI
Trichloroethylene	0.0318	0.0055	mg/kg dry	0.05475	BRL	58	38-164	7	18	
Trichlorofluoromethane	0.0380	0.0055	mg/kg dry	0.05475	BRL	69	30-157	7	27	
Vinyl acetate	BRL	0.027	mg/kg dry	0.05475	BRL		61-154		35	MI
Vinyl chloride	0.0387	0.0055	mg/kg dry	0.05475	BRL	71	40-156	7	35	
Xylenes, total	0.0776	0.016	mg/kg dry	0.1642	BRL	47	36-148	7	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0609		mg/kg dry	0.05475		111	70-130			
<i>Surrogate: Dibromofluoromethane</i>	0.0589		mg/kg dry	0.05475		108	84-123			
<i>Surrogate: Toluene-d8</i>	0.0547		mg/kg dry	0.05475		100	76-129			

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

 Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

TCLP Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0096 - 5030B

Blank (P5G0096-BLK1)		Prepared & Analyzed: 07/07/15				
1,1-Dichloroethylene	BRL	0.035	mg/L			
1,2-Dichloroethane	BRL	0.025	mg/L			
1,4-Dichlorobenzene	BRL	0.38	mg/L			
Benzene	BRL	0.025	mg/L			
Carbon Tetrachloride	BRL	0.025	mg/L			
Chlorobenzene	BRL	5.0	mg/L			
Chloroform	BRL	0.30	mg/L			
Methyl Ethyl Ketone (2-Butanone)	BRL	10	mg/L			
Tetrachloroethylene	BRL	0.035	mg/L			
Trichloroethylene	BRL	0.025	mg/L			
Vinyl chloride	BRL	0.020	mg/L			
Surrogate: 4-Bromofluorobenzene	0.222		mg/L	0.2500	89	80-124
Surrogate: Dibromofluoromethane	0.266		mg/L	0.2500	106	75-129
Surrogate: Toluene-d8	0.242		mg/L	0.2500	97	77-123

LCS (P5G0096-BS1)		Prepared & Analyzed: 07/07/15				
1,1-Dichloroethylene	0.0232	0.035	mg/L	0.02000	116	70-154
1,2-Dichloroethane	0.0182	0.025	mg/L	0.02000	91	68-131
1,4-Dichlorobenzene	0.0211	0.38	mg/L	0.02000	106	75-126
Benzene	0.0210	0.025	mg/L	0.02000	105	77-128
Carbon Tetrachloride	0.0221	0.025	mg/L	0.02000	110	72-142
Chlorobenzene	0.0216	5.0	mg/L	0.02000	108	78-119
Chloroform	0.0191	0.30	mg/L	0.02000	95	77-130
Methyl Ethyl Ketone (2-Butanone)	0.0142	10	mg/L	0.02000	71	71-134
Tetrachloroethylene	0.0251	0.035	mg/L	0.02000	125	80-129
Trichloroethylene	0.0233	0.025	mg/L	0.02000	116	77-133
Vinyl chloride	0.0222	0.010	mg/L	0.02000	111	57-141
Surrogate: 4-Bromofluorobenzene	0.0223		mg/L	0.02500	89	80-124
Surrogate: Dibromofluoromethane	0.0247		mg/L	0.02500	99	75-129
Surrogate: Toluene-d8	0.0249		mg/L	0.02500	100	77-123

Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

TCLP Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0096 - 5030B

LCS Dup (P5G0096-BSD1)	Prepared & Analyzed: 07/07/15								
1,1-Dichloroethylene	0.0215	0.035	mg/L	0.02000	107	70-154	7	20	
1,2-Dichloroethane	0.0187	0.025	mg/L	0.02000	93	68-131	2	20	
1,4-Dichlorobenzene	0.0216	0.38	mg/L	0.02000	108	75-126	2	20	
Benzene	0.0210	0.025	mg/L	0.02000	105	77-128	0.2	20	
Carbon Tetrachloride	0.0211	0.025	mg/L	0.02000	106	72-142	5	20	
Chlorobenzene	0.0215	5.0	mg/L	0.02000	108	78-119	0.6	20	
Chloroform	0.0189	0.30	mg/L	0.02000	95	77-130	0.7	20	
Methyl Ethyl Ketone (2-Butanone)	0.0147	10	mg/L	0.02000	73	71-134	3	20	
Tetrachloroethylene	0.0248	0.035	mg/L	0.02000	124	80-129	1	20	
Trichloroethylene	0.0231	0.025	mg/L	0.02000	116	77-133	0.6	20	
Vinyl chloride	0.0206	0.010	mg/L	0.02000	103	57-141	8	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0225</i>		<i>mg/L</i>	<i>0.02500</i>	<i>90</i>	<i>80-124</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0248</i>		<i>mg/L</i>	<i>0.02500</i>	<i>99</i>	<i>75-129</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0246</i>		<i>mg/L</i>	<i>0.02500</i>	<i>98</i>	<i>77-123</i>			

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0003 - 3510C MS

Blank (P5G0003-BLK1) Prepared: 07/01/15 Analyzed: 07/02/15

1,2,4-Trichlorobenzene	BRL	10	ug/L
1,2-Dichlorobenzene	BRL	10	ug/L
1,3-Dichlorobenzene	BRL	10	ug/L
1,4-Dichlorobenzene	BRL	10	ug/L
1-Methylnaphthalene	BRL	10	ug/L
2,4,5-Trichlorophenol	BRL	10	ug/L
2,4,6-Trichlorophenol	BRL	10	ug/L
2,4-Dichlorophenol	BRL	10	ug/L
2,4-Dimethylphenol	BRL	10	ug/L
2,4-Dinitrophenol	BRL	10	ug/L
2,4-Dinitrotoluene	BRL	10	ug/L
2,6-Dinitrotoluene	BRL	10	ug/L
2-Chloronaphthalene	BRL	10	ug/L
2-Chlorophenol	BRL	10	ug/L
2-Methylnaphthalene	BRL	10	ug/L
2-Methylphenol	BRL	10	ug/L
2-Nitroaniline	BRL	10	ug/L
2-Nitrophenol	BRL	10	ug/L
3,3'-Dichlorobenzidine	BRL	10	ug/L
3/4-Methylphenol	BRL	10	ug/L
3-Nitroaniline	BRL	10	ug/L
4,6-Dinitro-2-methylphenol	BRL	10	ug/L
4-Bromophenyl phenyl ether	BRL	10	ug/L
4-Chloro-3-methylphenol	BRL	10	ug/L
4-Chloroaniline	BRL	10	ug/L
4-Chlorophenyl phenyl ether	BRL	10	ug/L
4-Nitroaniline	BRL	10	ug/L
4-Nitrophenol	BRL	10	ug/L
Acenaphthene	BRL	10	ug/L
Acenaphthylene	BRL	10	ug/L
Aniline	BRL	10	ug/L
Anthracene	BRL	10	ug/L
Azobenzene	BRL	10	ug/L
Benzo(a)anthracene	BRL	10	ug/L
Benzo(a)pyrene	BRL	10	ug/L
Benzo(b)fluoranthene	BRL	10	ug/L
Benzo(g,h,i)perylene	BRL	10	ug/L
Benzo(k)fluoranthene	BRL	10	ug/L
Benzoic Acid	BRL	100	ug/L
Benzyl alcohol	BRL	10	ug/L
bis(2-Chloroethoxy)methane	BRL	10	ug/L
Bis(2-Chloroethyl)ether	BRL	10	ug/L
Bis(2-chloroisopropyl)ether	BRL	10	ug/L
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L
Butyl benzyl phthalate	BRL	10	ug/L
Chrysene	BRL	10	ug/L

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Froehling & Robertson, Inc. (Raleigh)
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 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

 Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0003 - 3510C MS
Blank (P5G0003-BLK1)

Prepared: 07/01/15 Analyzed: 07/02/15

Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
<i>Surrogate: 2,4,6-Tribromophenol</i>	119	ug/L	100.0		119	49-109				SR
<i>Surrogate: 2-Fluorobiphenyl</i>	57.6	ug/L	50.00		115	55-96				SR
<i>Surrogate: 2-Fluorophenol</i>	71.8	ug/L	100.0		72	27-74				
<i>Surrogate: Nitrobenzene-d5</i>	55.9	ug/L	50.00		112	53-99				SR
<i>Surrogate: Phenol-d5</i>	46.0	ug/L	100.0		46	11-52				
<i>Surrogate: Terphenyl-d14</i>	52.3	ug/L	50.00		105	42-133				

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0003 - 3510C MS

LCS (P5G0003-BS1)					Prepared: 07/01/15	Analyzed: 07/02/15				
1,2,4-Trichlorobenzene	50.9	10	ug/L	50.00	102	45-103				
1,2-Dichlorobenzene	47.0	10	ug/L	50.00	94	43-100				
1,3-Dichlorobenzene	47.5	10	ug/L	50.00	95	42-98				
1,4-Dichlorobenzene	47.2	10	ug/L	50.00	94	42-100				
1-Methylnaphthalene	52.0	10	ug/L	50.00	104	45-135				
2,4,5-Trichlorophenol	56.4	10	ug/L	50.00	113	66-120				
2,4,6-Trichlorophenol	57.8	10	ug/L	50.00	116	62-121				
2,4-Dichlorophenol	54.2	10	ug/L	50.00	108	58-113				
2,4-Dimethylphenol	49.4	10	ug/L	50.00	99	42-120				
2,4-Dinitrophenol	38.4	10	ug/L	50.00	77	27-129				
2,4-Dinitrotoluene	56.2	10	ug/L	50.00	112	62-136				
2,6-Dinitrotoluene	60.9	10	ug/L	50.00	122	64-129				
2-Chloronaphthalene	66.1	10	ug/L	50.00	132	38-141				
2-Chlorophenol	49.9	10	ug/L	50.00	100	49-107				
2-Methylnaphthalene	51.0	10	ug/L	50.00	102	55-112				
2-Methylphenol	43.6	10	ug/L	50.00	87	40-106				
2-Nitroaniline	53.7	10	ug/L	50.00	107	65-122				
2-Nitrophenol	54.2	10	ug/L	50.00	108	57-115				
3,3'-Dichlorobenzidine	45.0	10	ug/L	50.00	90	58-139				
3/4-Methylphenol	41.9	10	ug/L	50.00	84	34-101				
3-Nitroaniline	48.1	10	ug/L	50.00	96	52-155				
4,6-Dinitro-2-methylphenol	49.4	10	ug/L	50.00	99	49-138				
4-Bromophenyl phenyl ether	56.2	10	ug/L	50.00	112	63-135				
4-Chloro-3-methylphenol	54.6	10	ug/L	50.00	109	33-149				
4-Chloroaniline	44.8	10	ug/L	50.00	90	44-163				
4-Chlorophenyl phenyl ether	54.1	10	ug/L	50.00	108	63-129				
4-Nitroaniline	51.5	10	ug/L	50.00	103	63-147				
4-Nitrophenol	23.5	10	ug/L	50.00	47	10-77				
Acenaphthene	55.0	10	ug/L	50.00	110	64-118				
Acenaphthylene	54.5	10	ug/L	50.00	109	65-119				
Aniline	59.7	10	ug/L	50.00	119	12-197				
Anthracene	55.8	10	ug/L	50.00	112	69-134				
Azobenzene	56.7	10	ug/L	50.00	113	56-129				
Benzo(a)anthracene	50.9	10	ug/L	50.00	102	71-125				
Benzo(a)pyrene	51.6	10	ug/L	50.00	103	67-135				
Benzo(b)fluoranthene	53.1	10	ug/L	50.00	106	56-145				
Benzo(g,h,i)perylene	53.0	10	ug/L	50.00	106	44-149				
Benzo(k)fluoranthene	50.4	10	ug/L	50.00	101	65-138				
Benzoic Acid	14.7	100	ug/L	50.00	29	10-125				J
Benzyl alcohol	42.2	10	ug/L	50.00	84	35-111				
bis(2-Chloroethoxy)methane	50.4	10	ug/L	50.00	101	49-126				
Bis(2-Chloroethyl)ether	107	10	ug/L	50.00	214	47-124				L1
Bis(2-chloroisopropyl)ether	51.0	10	ug/L	50.00	102	42-126				
Bis(2-Ethylhexyl)phthalate	55.2	10	ug/L	50.00	110	59-139				
Butyl benzyl phthalate	55.4	10	ug/L	50.00	111	67-133				
Chrysene	51.7	10	ug/L	50.00	103	64-124				

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

 Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0003 - 3510C MS										
LCS (P5G0003-BS1)										
Prepared: 07/01/15 Analyzed: 07/02/15										
Dibenzo(a,h)anthracene	53.0	10	ug/L	50.00	106	49-144				
Dibenzofuran	56.1	10	ug/L	50.00	112	68-113				
Diethyl phthalate	60.8	10	ug/L	50.00	122	70-124				
Dimethyl phthalate	60.5	10	ug/L	50.00	121	71-117				LH
Di-n-butyl phthalate	59.8	10	ug/L	50.00	120	69-128				
Di-n-octyl phthalate	55.4	10	ug/L	50.00	111	52-150				
Fluoranthene	56.9	10	ug/L	50.00	114	66-135				
Fluorene	58.0	10	ug/L	50.00	116	67-124				
Hexachlorobenzene	58.3	10	ug/L	50.00	117	62-124				
Hexachlorobutadiene	49.2	10	ug/L	50.00	98	42-105				
Hexachlorocyclopentadiene	46.0	10	ug/L	50.00	92	32-117				
Hexachloroethane	45.1	10	ug/L	50.00	90	40-99				
Indeno(1,2,3-cd)pyrene	52.0	10	ug/L	50.00	104	40-150				
Isophorone	52.6	10	ug/L	50.00	105	54-125				
Naphthalene	51.9	10	ug/L	50.00	104	54-111				
Nitrobenzene	55.0	10	ug/L	50.00	110	51-117				
N-Nitroso-di-n-propylamine	52.6	10	ug/L	50.00	105	55-115				
N-Nitrosodiphenylamine	56.2	10	ug/L	50.00	112	70-152				
Pentachlorophenol	41.1	10	ug/L	50.00	82	23-139				
Phenanthrene	57.9	10	ug/L	50.00	116	68-128				
Phenol	20.0	10	ug/L	50.00	40	12-58				
Pyrene	53.0	10	ug/L	50.00	106	62-139				
Surrogate: 2,4,6-Tribromophenol	126		ug/L	100.0	126	49-109				SR
Surrogate: 2-Fluorobiphenyl	58.0		ug/L	50.00	116	55-96				SR
Surrogate: 2-Fluorophenol	70.2		ug/L	100.0	70	27-74				
Surrogate: Nitrobenzene-d5	55.4		ug/L	50.00	111	53-99				SR
Surrogate: Phenol-d5	44.3		ug/L	100.0	44	11-52				
Surrogate: Terphenyl-d14	53.8		ug/L	50.00	108	42-133				

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Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0003 - 3510C MS

LCS Dup (P5G0003-BSD1)	Prepared: 07/01/15 Analyzed: 07/02/15								
1,2,4-Trichlorobenzene	50.8	10	ug/L	50.00	102	45-103	0.1	20	
1,2-Dichlorobenzene	48.1	10	ug/L	50.00	96	43-100	2	20	
1,3-Dichlorobenzene	48.3	10	ug/L	50.00	97	42-98	2	20	
1,4-Dichlorobenzene	48.4	10	ug/L	50.00	97	42-100	3	20	
1-Methylnaphthalene	52.4	10	ug/L	50.00	105	45-135	0.8	20	
2,4,5-Trichlorophenol	57.3	10	ug/L	50.00	115	66-120	2	20	
2,4,6-Trichlorophenol	59.7	10	ug/L	50.00	119	62-121	3	20	
2,4-Dichlorophenol	55.3	10	ug/L	50.00	111	58-113	2	20	
2,4-Dimethylphenol	52.5	10	ug/L	50.00	105	42-120	6	20	
2,4-Dinitrophenol	41.0	10	ug/L	50.00	82	27-129	7	20	
2,4-Dinitrotoluene	57.3	10	ug/L	50.00	115	62-136	2	20	
2,6-Dinitrotoluene	59.9	10	ug/L	50.00	120	64-129	2	20	
2-Chloronaphthalene	68.0	10	ug/L	50.00	136	38-141	3	20	
2-Chlorophenol	51.0	10	ug/L	50.00	102	49-107	2	20	
2-Methylnaphthalene	52.2	10	ug/L	50.00	104	55-112	2	20	
2-Methylphenol	45.5	10	ug/L	50.00	91	40-106	4	20	
2-Nitroaniline	53.9	10	ug/L	50.00	108	65-122	0.3	20	
2-Nitrophenol	54.9	10	ug/L	50.00	110	57-115	1	20	
3,3'-Dichlorobenzidine	44.5	10	ug/L	50.00	89	58-139	1	20	
3/4-Methylphenol	43.9	10	ug/L	50.00	88	34-101	5	20	
3-Nitroaniline	47.0	10	ug/L	50.00	94	52-155	2	20	
4,6-Dinitro-2-methylphenol	51.0	10	ug/L	50.00	102	49-138	3	20	
4-Bromophenyl phenyl ether	55.3	10	ug/L	50.00	111	63-135	2	20	
4-Chloro-3-methylphenol	54.5	10	ug/L	50.00	109	33-149	0.2	20	
4-Chloroaniline	45.5	10	ug/L	50.00	91	44-163	2	20	
4-Chlorophenyl phenyl ether	53.8	10	ug/L	50.00	108	63-129	0.4	20	
4-Nitroaniline	50.2	10	ug/L	50.00	100	63-147	3	20	
4-Nitrophenol	22.7	10	ug/L	50.00	45	10-77	4	20	
Acenaphthene	55.4	10	ug/L	50.00	111	64-118	0.7	20	
Acenaphthylene	55.1	10	ug/L	50.00	110	65-119	1	20	
Aniline	62.7	10	ug/L	50.00	125	12-197	5	20	
Anthracene	56.2	10	ug/L	50.00	112	69-134	0.8	20	
Azobenzene	57.4	10	ug/L	50.00	115	56-129	1	20	
Benzo(a)anthracene	50.1	10	ug/L	50.00	100	71-125	2	20	
Benzo(a)pyrene	51.1	10	ug/L	50.00	102	67-135	1	20	
Benzo(b)fluoranthene	52.7	10	ug/L	50.00	105	56-145	0.8	20	
Benzo(g,h,i)perylene	52.7	10	ug/L	50.00	105	44-149	0.7	20	
Benzo(k)fluoranthene	48.8	10	ug/L	50.00	98	65-138	3	20	
Benzoic Acid	15.2	100	ug/L	50.00	30	10-125	3	20	J
Benzyl alcohol	43.0	10	ug/L	50.00	86	35-111	2	20	
bis(2-Chloroethoxy)methane	50.4	10	ug/L	50.00	101	49-126	0.04	20	
Bis(2-Chloroethyl)ether	52.8	10	ug/L	50.00	106	47-124	68	20	D
Bis(2-chloroisopropyl)ether	52.0	10	ug/L	50.00	104	42-126	2	20	
Bis(2-Ethylhexyl)phthalate	55.4	10	ug/L	50.00	111	59-139	0.3	20	
Butyl benzyl phthalate	54.8	10	ug/L	50.00	110	67-133	1	20	
Chrysene	51.0	10	ug/L	50.00	102	64-124	1	20	

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0003 - 3510C MS										
LCS Dup (P5G0003-BSD1)										
Prepared: 07/01/15 Analyzed: 07/02/15										
Dibenzo(a,h)anthracene	51.6	10	ug/L	50.00	103	49-144	3	20		
Dibenzofuran	56.7	10	ug/L	50.00	113	68-113	1	20		L2
Diethyl phthalate	60.1	10	ug/L	50.00	120	70-124	1	20		
Dimethyl phthalate	60.2	10	ug/L	50.00	120	71-117	0.6	20		LH
Di-n-butyl phthalate	60.5	10	ug/L	50.00	121	69-128	1	20		
Di-n-octyl phthalate	54.6	10	ug/L	50.00	109	52-150	1	20		
Fluoranthene	55.9	10	ug/L	50.00	112	66-135	2	20		
Fluorene	57.9	10	ug/L	50.00	116	67-124	0.09	20		
Hexachlorobenzene	59.0	10	ug/L	50.00	118	62-124	1	20		
Hexachlorobutadiene	49.9	10	ug/L	50.00	100	42-105	1	20		
Hexachlorocyclopentadiene	46.8	10	ug/L	50.00	94	32-117	2	20		
Hexachloroethane	47.3	10	ug/L	50.00	95	40-99	5	20		
Indeno(1,2,3-cd)pyrene	51.0	10	ug/L	50.00	102	40-150	2	20		
Isophorone	53.3	10	ug/L	50.00	107	54-125	1	20		
Naphthalene	52.7	10	ug/L	50.00	105	54-111	2	20		
Nitrobenzene	55.2	10	ug/L	50.00	110	51-117	0.2	20		
N-Nitroso-di-n-propylamine	53.6	10	ug/L	50.00	107	55-115	2	20		
N-Nitrosodiphenylamine	57.1	10	ug/L	50.00	114	70-152	2	20		
Pentachlorophenol	40.0	10	ug/L	50.00	80	23-139	3	20		
Phenanthrene	58.5	10	ug/L	50.00	117	68-128	1	20		
Phenol	19.9	10	ug/L	50.00	40	12-58	0.4	20		
Pyrene	53.0	10	ug/L	50.00	106	62-139	0.06	20		
<i>Surrogate: 2,4,6-Tribromophenol</i>	116		ug/L	100.0	116	49-109				
<i>Surrogate: 2-Fluorobiphenyl</i>	55.3		ug/L	50.00	111	55-96				SR
<i>Surrogate: 2-Fluorophenol</i>	65.3		ug/L	100.0	65	27-74				
<i>Surrogate: Nitrobenzene-d5</i>	52.4		ug/L	50.00	105	53-99				SR
<i>Surrogate: Phenol-d5</i>	42.0		ug/L	100.0	42	11-52				
<i>Surrogate: Terphenyl-d14</i>	49.2		ug/L	50.00	98	42-133				

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0053 - 3546
Blank (P5G0053-BLK1)

Prepared & Analyzed: 07/06/15

1,2,4-Trichlorobenzene	BRL	0.33	mg/kg wet							
1,2-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,3-Dichlorobenzene	BRL	0.33	mg/kg wet							
1,4-Dichlorobenzene	BRL	0.33	mg/kg wet							
1-Methylnaphthalene	BRL	0.33	mg/kg wet							
2,4,6-Trichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dichlorophenol	BRL	0.33	mg/kg wet							
2,4-Dimethylphenol	BRL	0.33	mg/kg wet							
2,4-Dinitrophenol	BRL	0.33	mg/kg wet							
2,4-Dinitrotoluene	BRL	0.33	mg/kg wet							
2,6-Dinitrotoluene	BRL	0.33	mg/kg wet							
2-Chloronaphthalene	BRL	0.33	mg/kg wet							
2-Chlorophenol	BRL	0.33	mg/kg wet							
2-Methylnaphthalene	BRL	0.33	mg/kg wet							
2-Methylphenol	BRL	0.33	mg/kg wet							
2-Nitrophenol	BRL	0.33	mg/kg wet							
3,3'-Dichlorobenzidine	BRL	0.33	mg/kg wet							
3/4-Methylphenol	BRL	0.33	mg/kg wet							
4,6-Dinitro-2-methylphenol	BRL	0.33	mg/kg wet							
4-Bromophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Chloro-3-methylphenol	BRL	0.33	mg/kg wet							
4-Chloroaniline	BRL	0.33	mg/kg wet							
4-Chlorophenyl phenyl ether	BRL	0.33	mg/kg wet							
4-Nitrophenol	BRL	0.33	mg/kg wet							
Acenaphthene	BRL	0.33	mg/kg wet							
Acenaphthylene	BRL	0.33	mg/kg wet							
Anthracene	BRL	0.33	mg/kg wet							
Azobenzene	BRL	0.33	mg/kg wet							
Benzo(a)anthracene	BRL	0.33	mg/kg wet							
Benzo(a)pyrene	BRL	0.33	mg/kg wet							
Benzo(b)fluoranthene	BRL	0.33	mg/kg wet							
Benzo(g,h,i)perylene	BRL	0.33	mg/kg wet							
Benzo(k)fluoranthene	BRL	0.33	mg/kg wet							
Benzoic Acid	BRL	0.33	mg/kg wet							
Benzyl alcohol	BRL	0.33	mg/kg wet							
bis(2-Chloroethoxy)methane	BRL	0.33	mg/kg wet							
Bis(2-Chloroethyl)ether	BRL	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	BRL	0.33	mg/kg wet							
Bis(2-Ethylhexyl)phthalate	BRL	0.33	mg/kg wet							
Butyl benzyl phthalate	BRL	0.33	mg/kg wet							
Chrysene	BRL	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	BRL	0.33	mg/kg wet							
Dibenzofuran	BRL	0.33	mg/kg wet							
Diethyl phthalate	BRL	0.33	mg/kg wet							
Dimethyl phthalate	BRL	0.33	mg/kg wet							
Di-n-butyl phthalate	BRL	0.33	mg/kg wet							

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Froehling & Robertson, Inc. (Raleigh)
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310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0053 - 3546
Blank (P5G0053-BLK1)

Prepared & Analyzed: 07/06/15

Di-n-octyl phthalate	BRL	0.33	mg/kg wet							
Fluoranthene	BRL	0.33	mg/kg wet							
Fluorene	BRL	0.33	mg/kg wet							
Hexachlorobenzene	BRL	0.33	mg/kg wet							
Hexachlorobutadiene	BRL	0.33	mg/kg wet							
Hexachlorocyclopentadiene	BRL	0.33	mg/kg wet							
Hexachloroethane	BRL	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	BRL	0.33	mg/kg wet							
Isophorone	BRL	0.33	mg/kg wet							
Naphthalene	BRL	0.33	mg/kg wet							
Nitrobenzene	BRL	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	BRL	0.33	mg/kg wet							
N-Nitrosodiphenylamine	BRL	0.33	mg/kg wet							
Pentachlorophenol	BRL	0.33	mg/kg wet							
Phenanthrene	BRL	0.33	mg/kg wet							
Phenol	BRL	0.33	mg/kg wet							
Pyrene	BRL	0.33	mg/kg wet							
<i>Surrogate: 2,4,6-Tribromophenol</i>	3.69		mg/kg wet	3.333		111	39-132			
<i>Surrogate: 2-Fluorobiphenyl</i>	1.62		mg/kg wet	1.667		97	44-115			
<i>Surrogate: 2-Fluorophenol</i>	3.13		mg/kg wet	3.333		94	35-115			
<i>Surrogate: Nitrobenzene-d5</i>	1.52		mg/kg wet	1.667		91	37-122			
<i>Surrogate: Phenol-d5</i>	3.25		mg/kg wet	3.333		98	34-121			
<i>Surrogate: Terphenyl-d14</i>	1.51		mg/kg wet	1.667		91	54-127			

LCS (P5G0053-BS1)

Prepared & Analyzed: 07/06/15

1,2,4-Trichlorobenzene	1.54	0.33	mg/kg wet	1.667		92	34-118			
1,2-Dichlorobenzene	1.41	0.33	mg/kg wet	1.667		84	33-117			
1,3-Dichlorobenzene	1.39	0.33	mg/kg wet	1.667		83	30-115			
1,4-Dichlorobenzene	1.40	0.33	mg/kg wet	1.667		84	31-115			
1-Methylnaphthalene	1.59	0.33	mg/kg wet	1.667		96	40-119			
2,4,6-Trichlorophenol	1.82	0.33	mg/kg wet	1.667		109	39-126			
2,4-Dichlorophenol	1.72	0.33	mg/kg wet	1.667		103	40-122			
2,4-Dimethylphenol	1.69	0.33	mg/kg wet	1.667		101	30-127			
2,4-Dinitrophenol	1.51	0.33	mg/kg wet	1.667		91	27-129			
2,4-Dinitrotoluene	1.87	0.33	mg/kg wet	1.667		112	48-126			
2,6-Dinitrotoluene	1.87	0.33	mg/kg wet	1.667		112	46-124			
2-Chloronaphthalene	2.23	0.33	mg/kg wet	1.667		134	41-114			LH
2-Chlorophenol	1.60	0.33	mg/kg wet	1.667		96	34-121			
2-Methylnaphthalene	1.58	0.33	mg/kg wet	1.667		95	38-122			
2-Methylphenol	1.64	0.33	mg/kg wet	1.667		98	32-122			
2-Nitrophenol	1.59	0.33	mg/kg wet	1.667		95	36-123			
3,3'-Dichlorobenzidine	1.44	0.33	mg/kg wet	1.667		87	22-121			
3/4-Methylphenol	1.77	0.33	mg/kg wet	1.667		106	34-119			
4,6-Dinitro-2-methylphenol	1.69	0.33	mg/kg wet	1.667		101	29-132			
4-Bromophenyl phenyl ether	1.69	0.33	mg/kg wet	1.667		102	46-124			
4-Chloro-3-methylphenol	1.81	0.33	mg/kg wet	1.667		109	45-122			
4-Chloroaniline	1.48	0.33	mg/kg wet	1.667		89	17-106			

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
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 Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0053 - 3546										
LCS (P5G0053-BS1)										
Prepared & Analyzed: 07/06/15										
4-Chlorophenyl phenyl ether	1.67	0.33	mg/kg wet	1.667	100	45-121				
4-Nitrophenol	1.82	0.33	mg/kg wet	1.667	109	30-132				
Acenaphthene	1.70	0.33	mg/kg wet	1.667	102	40-123				
Acenaphthylene	1.73	0.33	mg/kg wet	1.667	104	32-132				
Anthracene	1.78	0.33	mg/kg wet	1.667	107	47-123				
Azobenzene	1.79	0.33	mg/kg wet	1.667	107	39-125				
Benzo(a)anthracene	1.61	0.33	mg/kg wet	1.667	96	49-126				
Benzo(a)pyrene	1.63	0.33	mg/kg wet	1.667	98	45-129				
Benzo(b)fluoranthene	1.62	0.33	mg/kg wet	1.667	97	45-132				
Benzo(g,h,i)perylene	1.62	0.33	mg/kg wet	1.667	97	43-134				
Benzo(k)fluoranthene	1.61	0.33	mg/kg wet	1.667	96	47-132				
Benzoic Acid	1.49	0.33	mg/kg wet	1.667	89	10-83				LH
Benzyl alcohol	1.51	0.33	mg/kg wet	1.667	91	29-122				
bis(2-Chloroethoxy)methane	1.51	0.33	mg/kg wet	1.667	90	36-121				
Bis(2-Chloroethyl)ether	3.54	0.33	mg/kg wet	1.667	212	31-120				LH
Bis(2-chloroisopropyl)ether	1.52	0.33	mg/kg wet	1.667	91	33-131				
Bis(2-Ethylhexyl)phthalate	1.74	0.33	mg/kg wet	1.667	104	51-133				
Butyl benzyl phthalate	1.72	0.33	mg/kg wet	1.667	103	48-132				
Chrysene	1.61	0.33	mg/kg wet	1.667	97	50-124				
Dibenz(a,h)anthracene	1.60	0.33	mg/kg wet	1.667	96	45-134				
Dibenzofuran	1.76	0.33	mg/kg wet	1.667	106	44-120				
Diethyl phthalate	1.92	0.33	mg/kg wet	1.667	115	50-124				
Dimethyl phthalate	1.89	0.33	mg/kg wet	1.667	113	48-124				
Di-n-butyl phthalate	1.91	0.33	mg/kg wet	1.667	114	51-128				
Di-n-octyl phthalate	1.72	0.33	mg/kg wet	1.667	103	45-140				
Fluoranthene	1.79	0.33	mg/kg wet	1.667	107	50-127				
Fluorene	1.81	0.33	mg/kg wet	1.667	109	43-125				
Hexachlorobenzene	1.79	0.33	mg/kg wet	1.667	108	45-122				
Hexachlorobutadiene	1.52	0.33	mg/kg wet	1.667	91	32-123				
Hexachlorocyclopentadiene	1.47	0.33	mg/kg wet	1.667	88	32-117				
Hexachloroethane	1.40	0.33	mg/kg wet	1.667	84	28-117				
Indeno(1,2,3-cd)pyrene	1.58	0.33	mg/kg wet	1.667	95	45-133				
Isophorone	1.61	0.33	mg/kg wet	1.667	97	30-122				
Naphthalene	1.57	0.33	mg/kg wet	1.667	94	35-123				
Nitrobenzene	1.57	0.33	mg/kg wet	1.667	94	34-122				
N-Nitroso-di-n-propylamine	1.60	0.33	mg/kg wet	1.667	96	36-120				
N-Nitrosodiphenylamine	1.77	0.33	mg/kg wet	1.667	106	38-127				
Pentachlorophenol	1.53	0.33	mg/kg wet	1.667	92	25-133				
Phenanthrene	1.82	0.33	mg/kg wet	1.667	109	50-121				
Phenol	1.48	0.33	mg/kg wet	1.667	88	34-121				
Pyrene	1.64	0.33	mg/kg wet	1.667	99	47-127				
Surrogate: 2,4,6-Tribromophenol	3.61		mg/kg wet	3.333	108	39-132				
Surrogate: 2-Fluorobiphenyl	1.66		mg/kg wet	1.667	99	44-115				
Surrogate: 2-Fluorophenol	3.13		mg/kg wet	3.333	94	35-115				
Surrogate: Nitrobenzene-d5	1.48		mg/kg wet	1.667	89	37-122				
Surrogate: Phenol-d5	3.12		mg/kg wet	3.333	94	34-121				

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005

Time Submitted: 7/1/2015 8:15:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0053 - 3546										
LCS (P5G0053-BS1) Prepared & Analyzed: 07/06/15										
Surrogate: Terphenyl-d14	1.52		mg/kg wet	1.667	91	54-127				
LCS Dup (P5G0053-BSD1) Prepared & Analyzed: 07/06/15										
1,2,4-Trichlorobenzene	1.57	0.33	mg/kg wet	1.667	94	34-118	2	20		
1,2-Dichlorobenzene	1.43	0.33	mg/kg wet	1.667	86	33-117	2	20		
1,3-Dichlorobenzene	1.41	0.33	mg/kg wet	1.667	85	30-115	2	20		
1,4-Dichlorobenzene	1.42	0.33	mg/kg wet	1.667	85	31-115	2	20		
1-Methylnaphthalene	1.58	0.33	mg/kg wet	1.667	95	40-119	0.7	20		
2,4,6-Trichlorophenol	1.76	0.33	mg/kg wet	1.667	106	39-126	3	20		
2,4-Dichlorophenol	1.70	0.33	mg/kg wet	1.667	102	40-122	1	20		
2,4-Dimethylphenol	1.69	0.33	mg/kg wet	1.667	101	30-127	0.2	20		
2,4-Dinitrophenol	1.45	0.33	mg/kg wet	1.667	87	27-129	4	20		
2,4-Dinitrotoluene	1.82	0.33	mg/kg wet	1.667	109	48-126	2	20		
2,6-Dinitrotoluene	1.80	0.33	mg/kg wet	1.667	108	46-124	4	20		
2-Chloronaphthalene	2.21	0.33	mg/kg wet	1.667	132	41-114	1	20		
2-Chlorophenol	1.57	0.33	mg/kg wet	1.667	94	34-121	2	20		
2-Methylnaphthalene	1.57	0.33	mg/kg wet	1.667	94	38-122	0.7	20		
2-Methylphenol	1.58	0.33	mg/kg wet	1.667	95	32-122	4	20		
2-Nitrophenol	1.61	0.33	mg/kg wet	1.667	96	36-123	1	20		
3,3'-Dichlorobenzidine	1.38	0.33	mg/kg wet	1.667	83	22-121	5	20		
3/4-Methylphenol	1.74	0.33	mg/kg wet	1.667	104	34-119	2	20		
4,6-Dinitro-2-methylphenol	1.64	0.33	mg/kg wet	1.667	98	29-132	3	20		
4-Bromophenyl phenyl ether	1.63	0.33	mg/kg wet	1.667	98	46-124	4	20		
4-Chloro-3-methylphenol	1.80	0.33	mg/kg wet	1.667	108	45-122	1	20		
4-Chloroaniline	1.46	0.33	mg/kg wet	1.667	88	17-106	1	20		
4-Chlorophenyl phenyl ether	1.63	0.33	mg/kg wet	1.667	98	45-121	2	20		
4-Nitrophenol	1.78	0.33	mg/kg wet	1.667	107	30-132	3	20		
Acenaphthene	1.67	0.33	mg/kg wet	1.667	100	40-123	2	20		
Acenaphthylene	1.66	0.33	mg/kg wet	1.667	100	32-132	4	20		
Anthracene	1.71	0.33	mg/kg wet	1.667	102	47-123	4	20		
Azobenzene	1.70	0.33	mg/kg wet	1.667	102	39-125	5	20		
Benzo(a)anthracene	1.56	0.33	mg/kg wet	1.667	93	49-126	3	20		
Benzo(a)pyrene	1.59	0.33	mg/kg wet	1.667	95	45-129	2	20		
Benzo(b)fluoranthene	1.56	0.33	mg/kg wet	1.667	94	45-132	4	20		
Benzo(g,h,i)perylene	1.58	0.33	mg/kg wet	1.667	95	43-134	2	20		
Benzo(k)fluoranthene	1.58	0.33	mg/kg wet	1.667	95	47-132	2	20		
Benzoic Acid	1.39	0.33	mg/kg wet	1.667	84	10-83	7	20		
Benzyl alcohol	1.49	0.33	mg/kg wet	1.667	90	29-122	1	20		
bis(2-Chloroethoxy)methane	1.52	0.33	mg/kg wet	1.667	91	36-121	0.6	20		
Bis(2-Chloroethyl)ether	1.48	0.33	mg/kg wet	1.667	89	31-120	82	20		
Bis(2-chloroisopropyl)ether	1.53	0.33	mg/kg wet	1.667	92	33-131	0.5	20		
Bis(2-Ethylhexyl)phthalate	1.69	0.33	mg/kg wet	1.667	101	51-133	3	20		
Butyl benzyl phthalate	1.67	0.33	mg/kg wet	1.667	100	48-132	3	20		
Chrysene	1.59	0.33	mg/kg wet	1.667	96	50-124	1	20		
Dibenzo(a,h)anthracene	1.55	0.33	mg/kg wet	1.667	93	45-134	3	20		
Dibenzofuran	1.72	0.33	mg/kg wet	1.667	103	44-120	2	20		
Diethyl phthalate	1.86	0.33	mg/kg wet	1.667	111	50-124	3	20		

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Froehling & Robertson, Inc. (Raleigh)
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Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0053 - 3546										
LCS Dup (P5G0053-BSD1)										
Prepared & Analyzed: 07/06/15										
Dimethyl phthalate	1.84	0.33	mg/kg wet	1.667	111	48-124	2	20		
Di-n-butyl phthalate	1.88	0.33	mg/kg wet	1.667	113	51-128	2	20		
Di-n-octyl phthalate	1.67	0.33	mg/kg wet	1.667	100	45-140	3	20		
Fluoranthene	1.76	0.33	mg/kg wet	1.667	105	50-127	2	20		
Fluorene	1.75	0.33	mg/kg wet	1.667	105	43-125	4	20		
Hexachlorobenzene	1.72	0.33	mg/kg wet	1.667	103	45-122	4	20		
Hexachlorobutadiene	1.57	0.33	mg/kg wet	1.667	94	32-123	3	20		
Hexachlorocyclopentadiene	1.44	0.33	mg/kg wet	1.667	87	32-117	2	20		
Hexachloroethane	1.43	0.33	mg/kg wet	1.667	86	28-117	2	20		
Indeno(1,2,3-cd)pyrene	1.51	0.33	mg/kg wet	1.667	90	45-133	5	20		
Isophorone	1.59	0.33	mg/kg wet	1.667	95	30-122	1	20		
Naphthalene	1.57	0.33	mg/kg wet	1.667	94	35-123	0.2	20		
Nitrobenzene	1.58	0.33	mg/kg wet	1.667	95	34-122	0.8	20		
N-Nitroso-di-n-propylamine	1.61	0.33	mg/kg wet	1.667	97	36-120	0.9	20		
N-Nitrosodiphenylamine	1.71	0.33	mg/kg wet	1.667	103	38-127	3	20		
Pentachlorophenol	1.48	0.33	mg/kg wet	1.667	89	25-133	3	20		
Phenanthrene	1.77	0.33	mg/kg wet	1.667	106	50-121	3	20		
Phenol	1.44	0.33	mg/kg wet	1.667	86	34-121	2	20		
Pyrene	1.58	0.33	mg/kg wet	1.667	95	47-127	4	20		
Surrogate: 2,4,6-Tribromophenol	3.53		mg/kg wet	3.333	106	39-132				
Surrogate: 2-Fluorobiphenyl	1.61		mg/kg wet	1.667	97	44-115				
Surrogate: 2-Fluorophenol	3.11		mg/kg wet	3.333	93	35-115				
Surrogate: Nitrobenzene-d5	1.45		mg/kg wet	1.667	87	37-122				
Surrogate: Phenol-d5	3.03		mg/kg wet	3.333	91	34-121				
Surrogate: Terphenyl-d14	1.48		mg/kg wet	1.667	89	54-127				
Matrix Spike (P5G0053-MS1)										
Source: 5070005-01 Prepared & Analyzed: 07/06/15										
1,2,4-Trichlorobenzene	1.86	0.39	mg/kg dry	1.964	BRL	95	34-118			
1,2-Dichlorobenzene	1.74	0.39	mg/kg dry	1.964	BRL	88	33-117			
1,3-Dichlorobenzene	1.66	0.39	mg/kg dry	1.964	BRL	85	30-115			
1,4-Dichlorobenzene	1.69	0.39	mg/kg dry	1.964	BRL	86	31-115			
1-Methylnaphthalene	1.91	0.39	mg/kg dry	1.964	BRL	97	40-119			
2,4,6-Trichlorophenol	2.11	0.39	mg/kg dry	1.964	BRL	108	39-126			
2,4-Dichlorophenol	2.03	0.39	mg/kg dry	1.964	BRL	103	40-122			
2,4-Dimethylphenol	1.94	0.39	mg/kg dry	1.964	BRL	99	30-127			
2,4-Dinitrophenol	0.908	0.39	mg/kg dry	1.964	BRL	46	27-129			
2,4-Dinitrotoluene	1.82	0.39	mg/kg dry	1.964	BRL	93	48-126			
2,6-Dinitrotoluene	1.93	0.39	mg/kg dry	1.964	BRL	98	46-124			
2-Chloronaphthalene	2.60	0.39	mg/kg dry	1.964	BRL	132	41-114			M
2-Chlorophenol	1.92	0.39	mg/kg dry	1.964	BRL	98	34-121			
2-Methylnaphthalene	1.90	0.39	mg/kg dry	1.964	BRL	97	38-122			
2-Methylphenol	1.93	0.39	mg/kg dry	1.964	BRL	98	32-122			
2-Nitrophenol	1.52	0.39	mg/kg dry	1.964	BRL	77	36-123			
3,3'-Dichlorobenzidine	1.38	0.39	mg/kg dry	1.964	BRL	70	22-121			
3/4-Methylphenol	2.12	0.39	mg/kg dry	1.964	BRL	108	34-119			
4,6-Dinitro-2-methylphenol	1.41	0.39	mg/kg dry	1.964	BRL	72	29-132			
4-Bromophenyl phenyl ether	2.00	0.39	mg/kg dry	1.964	BRL	102	46-124			

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch P5G0053 - 3546

Matrix Spike (P5G0053-MS1)	Source: 5070005-01			Prepared & Analyzed: 07/06/15					
4-Chloro-3-methylphenol	2.10	0.39	mg/kg dry	1.964	BRL	107	45-122		
4-Chloroaniline	1.65	0.39	mg/kg dry	1.964	BRL	84	17-106		
4-Chlorophenyl phenyl ether	1.93	0.39	mg/kg dry	1.964	BRL	98	45-121		
4-Nitrophenol	1.97	0.39	mg/kg dry	1.964	BRL	100	30-132		
Acenaphthene	1.97	0.39	mg/kg dry	1.964	BRL	100	40-123		
Acenaphthylene	1.97	0.39	mg/kg dry	1.964	BRL	100	32-132		
Anthracene	2.11	0.39	mg/kg dry	1.964	BRL	107	47-123		
Azobenzene	2.11	0.39	mg/kg dry	1.964	BRL	107	39-125		
Benzo(a)anthracene	2.13	0.39	mg/kg dry	1.964	0.275	94	49-126		
Benzo(a)pyrene	2.12	0.39	mg/kg dry	1.964	0.266	94	45-129		
Benzo(b)fluoranthene	2.29	0.39	mg/kg dry	1.964	0.369	98	45-132		
Benzo(g,h,i)perylene	2.01	0.39	mg/kg dry	1.964	0.167	94	43-134		
Benzo(k)fluoranthene	1.86	0.39	mg/kg dry	1.964	0.104	90	47-132		
Benzoic Acid	2.12	0.39	mg/kg dry	1.964	BRL	108	10-83		M
Benzyl alcohol	1.83	0.39	mg/kg dry	1.964	BRL	93	29-122		
bis(2-Chloroethoxy)methane	1.79	0.39	mg/kg dry	1.964	BRL	91	36-121		
Bis(2-Chloroethyl)ether	2.20	0.39	mg/kg dry	1.964	BRL	112	31-120		
Bis(2-chloroisopropyl)ether	1.82	0.39	mg/kg dry	1.964	BRL	93	33-131		
Bis(2-Ethylhexyl)phthalate	2.03	0.39	mg/kg dry	1.964	BRL	103	51-133		
Butyl benzyl phthalate	2.02	0.39	mg/kg dry	1.964	BRL	103	48-132		
Chrysene	2.13	0.39	mg/kg dry	1.964	0.290	94	50-124		
Dibenzo(a,h)anthracene	1.88	0.39	mg/kg dry	1.964	BRL	96	45-134		
Dibenzofuran	2.06	0.39	mg/kg dry	1.964	BRL	105	44-120		
Diethyl phthalate	2.17	0.39	mg/kg dry	1.964	BRL	110	50-124		
Dimethyl phthalate	2.18	0.39	mg/kg dry	1.964	BRL	111	48-124		
Di-n-butyl phthalate	2.19	0.39	mg/kg dry	1.964	BRL	112	51-128		
Di-n-octyl phthalate	2.00	0.39	mg/kg dry	1.964	BRL	102	45-140		
Fluoranthene	2.66	0.39	mg/kg dry	1.964	0.669	102	50-127		
Fluorene	2.10	0.39	mg/kg dry	1.964	BRL	107	43-125		
Hexachlorobenzene	2.10	0.39	mg/kg dry	1.964	BRL	107	45-122		
Hexachlorobutadiene	1.83	0.39	mg/kg dry	1.964	BRL	93	32-123		
Hexachlorocyclopentadiene	1.38	0.39	mg/kg dry	1.964	BRL	70	32-117		
Hexachloroethane	1.68	0.39	mg/kg dry	1.964	BRL	85	28-117		
Indeno(1,2,3-cd)pyrene	1.95	0.39	mg/kg dry	1.964	BRL	99	45-133		
Isophorone	1.88	0.39	mg/kg dry	1.964	BRL	96	30-122		
Naphthalene	1.91	0.39	mg/kg dry	1.964	BRL	97	35-123		
Nitrobenzene	1.78	0.39	mg/kg dry	1.964	BRL	90	34-122		
N-Nitroso-di-n-propylamine	1.91	0.39	mg/kg dry	1.964	BRL	97	36-120		
N-Nitrosodiphenylamine	2.06	0.39	mg/kg dry	1.964	BRL	105	38-127		
Pentachlorophenol	1.86	0.39	mg/kg dry	1.964	BRL	95	25-133		
Phenanthrene	2.49	0.39	mg/kg dry	1.964	0.396	107	50-121		
Phenol	1.75	0.39	mg/kg dry	1.964	BRL	89	34-121		
Pyrene	2.36	0.39	mg/kg dry	1.964	0.490	95	47-127		
Surrogate: 2,4,6-Tribromophenol	4.03		mg/kg dry	3.929		103	39-132		
Surrogate: 2-Fluorobiphenyl	1.86		mg/kg dry	1.964		95	44-115		
Surrogate: 2-Fluorophenol	3.69		mg/kg dry	3.929		94	35-115		

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Froehling & Robertson, Inc. (Raleigh)
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Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0053 - 3546										
Matrix Spike (P5G0053-MS1)										
Source: 5070005-01 Prepared & Analyzed: 07/06/15										
Surrogate: Nitrobenzene-d5	1.65		mg/kg dry	1.964		84	37-122			
Surrogate: Phenol-d5	3.62		mg/kg dry	3.929		92	34-121			
Surrogate: Terphenyl-d14	1.75		mg/kg dry	1.964		89	54-127			
Matrix Spike Dup (P5G0053-MSD1)										
Source: 5070005-01 Prepared & Analyzed: 07/06/15										
1,2,4-Trichlorobenzene	1.90	0.39	mg/kg dry	1.966	BRL	97	34-118	2	20	
1,2-Dichlorobenzene	1.73	0.39	mg/kg dry	1.966	BRL	88	33-117	0.5	20	
1,3-Dichlorobenzene	1.68	0.39	mg/kg dry	1.966	BRL	86	30-115	1	20	
1,4-Dichlorobenzene	1.70	0.39	mg/kg dry	1.966	BRL	87	31-115	0.9	20	
1-Methylnaphthalene	1.97	0.39	mg/kg dry	1.966	BRL	100	40-119	3	20	
2,4,6-Trichlorophenol	2.25	0.39	mg/kg dry	1.966	BRL	115	39-126	6	20	
2,4-Dichlorophenol	2.10	0.39	mg/kg dry	1.966	BRL	107	40-122	4	20	
2,4-Dimethylphenol	2.07	0.39	mg/kg dry	1.966	BRL	105	30-127	6	20	
2,4-Dinitrophenol	1.13	0.39	mg/kg dry	1.966	BRL	58	27-129	22	20	D
2,4-Dinitrotoluene	2.04	0.39	mg/kg dry	1.966	BRL	104	48-126	11	20	
2,6-Dinitrotoluene	2.16	0.39	mg/kg dry	1.966	BRL	110	46-124	11	20	
2-Chloronaphthalene	2.85	0.39	mg/kg dry	1.966	BRL	145	41-114	9	20	M
2-Chlorophenol	1.92	0.39	mg/kg dry	1.966	BRL	98	34-121	0.4	20	
2-Methylnaphthalene	1.98	0.39	mg/kg dry	1.966	BRL	100	38-122	4	20	
2-Methylphenol	2.01	0.39	mg/kg dry	1.966	BRL	102	32-122	4	20	
2-Nitrophenol	1.67	0.39	mg/kg dry	1.966	BRL	85	36-123	9	20	
3,3'-Dichlorobenzidine	1.46	0.39	mg/kg dry	1.966	BRL	74	22-121	6	20	
3/4-Methylphenol	2.15	0.39	mg/kg dry	1.966	BRL	109	34-119	1	20	
4,6-Dinitro-2-methylphenol	1.65	0.39	mg/kg dry	1.966	BRL	84	29-132	15	20	
4-Bromophenyl phenyl ether	2.07	0.39	mg/kg dry	1.966	BRL	105	46-124	4	20	
4-Chloro-3-methylphenol	2.26	0.39	mg/kg dry	1.966	BRL	115	45-122	7	20	
4-Chloroaniline	1.72	0.39	mg/kg dry	1.966	BRL	87	17-106	4	20	
4-Chlorophenyl phenyl ether	2.03	0.39	mg/kg dry	1.966	BRL	103	45-121	5	20	
4-Nitrophenol	2.18	0.39	mg/kg dry	1.966	BRL	111	30-132	10	20	
Acenaphthene	2.14	0.39	mg/kg dry	1.966	BRL	109	40-123	9	20	
Acenaphthylene	2.13	0.39	mg/kg dry	1.966	BRL	108	32-132	8	20	
Anthracene	2.20	0.39	mg/kg dry	1.966	BRL	112	47-123	4	20	
Azobenzene	2.20	0.39	mg/kg dry	1.966	BRL	112	39-125	4	20	
Benzo(a)anthracene	2.16	0.39	mg/kg dry	1.966	0.275	96	49-126	2	20	
Benzo(a)pyrene	2.21	0.39	mg/kg dry	1.966	0.266	99	45-129	4	20	
Benzo(b)fluoranthene	2.39	0.39	mg/kg dry	1.966	0.369	103	45-132	4	20	
Benzo(g,h,i)perylene	2.11	0.39	mg/kg dry	1.966	0.167	99	43-134	5	20	
Benzo(k)fluoranthene	1.95	0.39	mg/kg dry	1.966	0.104	94	47-132	5	20	
Benzoic Acid	2.23	0.39	mg/kg dry	1.966	BRL	114	10-83	5	20	M
Benzyl alcohol	1.86	0.39	mg/kg dry	1.966	BRL	94	29-122	1	20	
bis(2-Chloroethoxy)methane	1.84	0.39	mg/kg dry	1.966	BRL	94	36-121	3	20	
Bis(2-Chloroethyl)ether	2.18	0.39	mg/kg dry	1.966	BRL	111	31-120	0.9	20	
Bis(2-chloroisopropyl)ether	1.81	0.39	mg/kg dry	1.966	BRL	92	33-131	0.5	20	
Bis(2-Ethylhexyl)phthalate	2.10	0.39	mg/kg dry	1.966	BRL	107	51-133	3	20	
Butyl benzyl phthalate	2.08	0.39	mg/kg dry	1.966	BRL	106	48-132	3	20	
Chrysene	2.16	0.39	mg/kg dry	1.966	0.290	95	50-124	1	20	
Dibenzo(a,h)anthracene	1.98	0.39	mg/kg dry	1.966	BRL	101	45-134	5	20	

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Froehling & Robertson, Inc. (Raleigh)
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 Raleigh, NC 27603

Project: Duke Diet & Fitness

 Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0053 - 3546

Matrix Spike Dup (P5G0053-MSD1)	Source: 5070005-01			Prepared & Analyzed: 07/06/15					
Dibenzofuran	2.19	0.39	mg/kg dry	1.966	BRL	112	44-120	6	20
Diethyl phthalate	2.36	0.39	mg/kg dry	1.966	BRL	120	50-124	9	20
Dimethyl phthalate	2.30	0.39	mg/kg dry	1.966	BRL	117	48-124	5	20
Di-n-butyl phthalate	2.28	0.39	mg/kg dry	1.966	BRL	116	51-128	4	20
Di-n-octyl phthalate	2.12	0.39	mg/kg dry	1.966	BRL	108	45-140	6	20
Fluoranthene	2.69	0.39	mg/kg dry	1.966	0.669	103	50-127	1	20
Fluorene	2.26	0.39	mg/kg dry	1.966	BRL	115	43-125	7	20
Hexachlorobenzene	2.21	0.39	mg/kg dry	1.966	BRL	112	45-122	5	20
Hexachlorobutadiene	1.89	0.39	mg/kg dry	1.966	BRL	96	32-123	3	20
Hexachlorocyclopentadiene	1.63	0.39	mg/kg dry	1.966	BRL	83	32-117	17	20
Hexachloroethane	1.68	0.39	mg/kg dry	1.966	BRL	86	28-117	0.5	20
Indeno(1,2,3-cd)pyrene	2.05	0.39	mg/kg dry	1.966	BRL	104	45-133	5	20
Isophorone	1.94	0.39	mg/kg dry	1.966	BRL	99	30-122	3	20
Naphthalene	1.97	0.39	mg/kg dry	1.966	BRL	100	35-123	3	20
Nitrobenzene	1.89	0.39	mg/kg dry	1.966	BRL	96	34-122	6	20
N-Nitroso-di-n-propylamine	1.93	0.39	mg/kg dry	1.966	BRL	98	36-120	1	20
N-Nitrosodiphenylamine	2.16	0.39	mg/kg dry	1.966	BRL	110	38-127	4	20
Pentachlorophenol	1.98	0.39	mg/kg dry	1.966	BRL	101	25-133	6	20
Phenanthrene	2.55	0.39	mg/kg dry	1.966	0.396	110	50-121	2	20
Phenol	1.77	0.39	mg/kg dry	1.966	BRL	90	34-121	0.7	20
Pyrene	2.35	0.39	mg/kg dry	1.966	0.490	94	47-127	0.7	20
Surrogate: 2,4,6-Tribromophenol	4.42		mg/kg dry	3.931		113	39-132		
Surrogate: 2-Fluorobiphenyl	2.03		mg/kg dry	1.966		103	44-115		
Surrogate: 2-Fluorophenol	3.81		mg/kg dry	3.931		97	35-115		
Surrogate: Nitrobenzene-d5	1.74		mg/kg dry	1.966		89	37-122		
Surrogate: Phenol-d5	3.79		mg/kg dry	3.931		96	34-121		
Surrogate: Terphenyl-d14	1.85		mg/kg dry	1.966		94	54-127		

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Froehling & Robertson, Inc. (Raleigh)
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Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

TCLP Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0086 - 3510C MS										
Blank (P5G0086-BLK1)										
Prepared & Analyzed: 07/07/15										
2,4,5-Trichlorophenol	BRL	0.25	mg/L							
2,4,6-Trichlorophenol	BRL	0.10	mg/L							
2,4-Dinitrotoluene	BRL	0.050	mg/L							
2-Methylphenol	BRL	0.050	mg/L							
3/4-Methylphenol	BRL	0.050	mg/L							
Hexachlorobenzene	BRL	0.050	mg/L							
Hexachlorobutadiene	BRL	0.050	mg/L							
Hexachloroethane	BRL	0.050	mg/L							
Nitrobenzene	BRL	0.050	mg/L							
Pentachlorophenol	BRL	0.25	mg/L							
Pyridine	BRL	0.25	mg/L							
Surrogate: 2,4,6-Tribromophenol	0.555		mg/L	0.5000		111	49-109			SR
Surrogate: 2-Fluorobiphenyl	0.241		mg/L	0.2500		97	55-96			SR
Surrogate: 2-Fluorophenol	0.317		mg/L	0.5000		63	27-74			
Surrogate: Nitrobenzene-d5	0.248		mg/L	0.2500		99	53-99			
Surrogate: Phenol-d5	0.200		mg/L	0.5000		40	11-52			
Surrogate: Terphenyl-d14	0.240		mg/L	0.2500		96	42-133			
LCS (P5G0086-BS1)										
Prepared & Analyzed: 07/07/15										
2,4,5-Trichlorophenol	0.258	0.25	mg/L	0.2500		103	66-120			
2,4,6-Trichlorophenol	0.275	0.10	mg/L	0.2500		110	62-121			
2,4-Dinitrotoluene	0.285	0.050	mg/L	0.2500		114	62-136			
2-Methylphenol	0.211	0.050	mg/L	0.2500		84	40-106			
3/4-Methylphenol	0.207	0.050	mg/L	0.2500		83	34-101			
Hexachlorobenzene	0.279	0.050	mg/L	0.2500		111	62-124			
Hexachlorobutadiene	0.228	0.050	mg/L	0.2500		91	42-105			
Hexachloroethane	0.191	0.050	mg/L	0.2500		76	40-99			
Nitrobenzene	0.269	0.050	mg/L	0.2500		107	51-117			
Pentachlorophenol	0.262	0.25	mg/L	0.2500		105	23-139			
Pyridine	0.105	0.25	mg/L	0.2500		42	10-53			
Surrogate: 2,4,6-Tribromophenol	0.608		mg/L	0.5000		122	49-109			SR
Surrogate: 2-Fluorobiphenyl	0.271		mg/L	0.2500		108	55-96			SR
Surrogate: 2-Fluorophenol	0.328		mg/L	0.5000		66	27-74			
Surrogate: Nitrobenzene-d5	0.268		mg/L	0.2500		107	53-99			SR
Surrogate: Phenol-d5	0.207		mg/L	0.5000		41	11-52			
Surrogate: Terphenyl-d14	0.247		mg/L	0.2500		99	42-133			

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Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

TCLP Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0086 - 3510C MS										
LCS Dup (P5G0086-BSD1)										
Prepared & Analyzed: 07/07/15										
2,4,5-Trichlorophenol	0.273	0.25	mg/L	0.2500	109	66-120	6	20		
2,4,6-Trichlorophenol	0.296	0.10	mg/L	0.2500	118	62-121	7	20		
2,4-Dinitrotoluene	0.302	0.050	mg/L	0.2500	121	62-136	6	20		
2-Methylphenol	0.227	0.050	mg/L	0.2500	91	40-106	7	20		
3/4-Methylphenol	0.225	0.050	mg/L	0.2500	90	34-101	8	20		
Hexachlorobenzene	0.292	0.050	mg/L	0.2500	117	62-124	5	20		
Hexachlorobutadiene	0.235	0.050	mg/L	0.2500	94	42-105	3	20		
Hexachloroethane	0.206	0.050	mg/L	0.2500	82	40-99	7	20		
Nitrobenzene	0.286	0.050	mg/L	0.2500	114	51-117	6	20		
Pentachlorophenol	0.280	0.25	mg/L	0.2500	112	23-139	6	20		
Pyridine	0.0903	0.25	mg/L	0.2500	36	10-53	15	20		
Surrogate: 2,4,6-Tribromophenol	0.587		mg/L	0.5000	117	49-109			SR	
Surrogate: 2-Fluorobiphenyl	0.261		mg/L	0.2500	104	55-96			SR	
Surrogate: 2-Fluorophenol	0.320		mg/L	0.5000	64	27-74				
Surrogate: Nitrobenzene-d5	0.258		mg/L	0.2500	103	53-99			SR	
Surrogate: Phenol-d5	0.200		mg/L	0.5000	40	11-52				
Surrogate: Terphenyl-d14	0.239		mg/L	0.2500	95	42-133				
Matrix Spike (P5G0086-MS1)										
Source: 5070005-06 Prepared: 07/08/15 Analyzed: 07/09/15										
2,4,5-Trichlorophenol	0.269	0.25	mg/L	0.2500	BRL	108	51-122			
2,4,6-Trichlorophenol	0.292	0.10	mg/L	0.2500	BRL	117	46-117			
2,4-Dinitrotoluene	0.289	0.050	mg/L	0.2500	BRL	116	64-135			
2-Methylphenol	0.233	0.050	mg/L	0.2500	BRL	93	27-92		M	
3/4-Methylphenol	0.220	0.050	mg/L	0.2500	BRL	88	22-84		M	
Hexachlorobenzene	0.298	0.050	mg/L	0.2500	BRL	119	55-131			
Hexachlorobutadiene	0.273	0.050	mg/L	0.2500	BRL	109	39-110			
Hexachloroethane	0.247	0.050	mg/L	0.2500	BRL	99	37-98		M	
Nitrobenzene	0.284	0.050	mg/L	0.2500	BRL	113	34-117			
Pentachlorophenol	0.275	0.25	mg/L	0.2500	BRL	110	17-167			
Pyridine	0.102	0.25	mg/L	0.2500	BRL	41	10-92			
Surrogate: 2,4,6-Tribromophenol	0.624		mg/L	0.5000		125	49-109		SR	
Surrogate: 2-Fluorobiphenyl	0.288		mg/L	0.2500		115	55-96		SR	
Surrogate: 2-Fluorophenol	0.351		mg/L	0.5000		70	27-74			
Surrogate: Nitrobenzene-d5	0.278		mg/L	0.2500		111	53-99		SR	
Surrogate: Phenol-d5	0.217		mg/L	0.5000		43	11-52			
Surrogate: Terphenyl-d14	0.263		mg/L	0.2500		105	42-133			

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

TCLP Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0086 - 3510C MS

Matrix Spike Dup (P5G0086-MSD1)	Source: 5070005-06			Prepared: 07/08/15 Analyzed: 07/09/15						
2,4,5-Trichlorophenol	0.279	0.25	mg/L	0.2500	BRL	112	51-122	4	22	
2,4,6-Trichlorophenol	0.302	0.10	mg/L	0.2500	BRL	121	46-117	3	30	M
2,4-Dinitrotoluene	0.298	0.050	mg/L	0.2500	BRL	119	64-135	3	24	
2-Methylphenol	0.232	0.050	mg/L	0.2500	BRL	93	27-92	0.2	36	M
3/4-Methylphenol	0.229	0.050	mg/L	0.2500	BRL	91	22-84	4	30	M
Hexachlorobenzene	0.310	0.050	mg/L	0.2500	BRL	124	55-131	4	29	
Hexachlorobutadiene	0.264	0.050	mg/L	0.2500	BRL	106	39-110	3	35	
Hexachloroethane	0.242	0.050	mg/L	0.2500	BRL	97	37-98	2	37	
Nitrobenzene	0.285	0.050	mg/L	0.2500	BRL	114	34-117	0.5	34	
Pentachlorophenol	0.292	0.25	mg/L	0.2500	BRL	117	17-167	6	36	
Pyridine	0.0904	0.25	mg/L	0.2500	BRL	36	10-92	12	49	
<i>Surrogate: 2,4,6-Tribromophenol</i>	0.586		mg/L	0.5000		117	49-109			SR
<i>Surrogate: 2-Fluorobiphenyl</i>	0.268		mg/L	0.2500		107	55-96			SR
<i>Surrogate: 2-Fluorophenol</i>	0.323		mg/L	0.5000		65	27-74			
<i>Surrogate: Nitrobenzene-d5</i>	0.256		mg/L	0.2500		102	53-99			SR
<i>Surrogate: Phenol-d5</i>	0.203		mg/L	0.5000		41	11-52			
<i>Surrogate: Terphenyl-d14</i>	0.252		mg/L	0.2500		101	42-133			

Froehling & Robertson, Inc. (Raleigh)
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Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

TCLP Organochlorine Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0087 - 3510C GC										
Blank (P5G0087-BLK1)										
Prepared & Analyzed: 07/07/15										
Chlordane	BRL	0.0025	mg/L							
Dieldrin	BRL	0.00050	mg/L							
Endrin	BRL	0.00050	mg/L							
gamma-BHC	BRL	0.00050	mg/L							
Heptachlor	BRL	0.00050	mg/L							
Heptachlor Epoxide	BRL	0.00050	mg/L							
Methoxychlor	BRL	0.00050	mg/L							
Toxaphene	BRL	0.025	mg/L							
<i>Surrogate: Decachlorobiphenyl</i>	0.00458		mg/L	0.005000		92	13-186			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.00374		mg/L	0.005000		75	40-134			
LCS (P5G0087-BS1)										
Prepared & Analyzed: 07/07/15										
Dieldrin	0.00440	0.00050	mg/L	0.005000		88	69-130			
Endrin	0.00442	0.00050	mg/L	0.005000		88	69-144			
gamma-BHC	0.00446	0.00050	mg/L	0.005000		89	66-129			
Heptachlor	0.00610	0.00050	mg/L	0.005000		122	61-136			
Heptachlor Epoxide	0.00428	0.00050	mg/L	0.005000		86	69-131			
Methoxychlor	0.00594	0.00050	mg/L	0.005000		119	70-157			
<i>Surrogate: Decachlorobiphenyl</i>	0.00422		mg/L	0.005000		84	13-186			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.00400		mg/L	0.005000		80	40-134			
LCS (P5G0087-BS2)										
Prepared & Analyzed: 07/07/15										
Chlordane	0.0465	0.0025	mg/L	0.05000		93	50-150			
<i>Surrogate: Decachlorobiphenyl</i>	0.00442		mg/L	0.005000		88	13-186			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.00356		mg/L	0.005000		71	40-134			
LCS (P5G0087-BS3)										
Prepared & Analyzed: 07/07/15										
Toxaphene	0.0486	0.025	mg/L	0.05000		97	50-150			
<i>Surrogate: Decachlorobiphenyl</i>	0.00466		mg/L	0.005000		93	13-186			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.00353		mg/L	0.005000		71	40-134			

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Froehling & Robertson, Inc. (Raleigh)
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Project: Duke Diet & Fitness

 Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

TCLP Organochlorine Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0087 - 3510C GC										
LCS Dup (P5G0087-BSD1)										
Prepared & Analyzed: 07/07/15										
Dieldrin	0.00437	0.00050	mg/L	0.005000	87	69-130	0.7	20		
Endrin	0.00437	0.00050	mg/L	0.005000	87	69-144	1	20		
gamma-BHC	0.00443	0.00050	mg/L	0.005000	89	66-129	0.7	20		
Heptachlor	0.00594	0.00050	mg/L	0.005000	119	61-136	3	20		
Heptachlor Epoxide	0.00426	0.00050	mg/L	0.005000	85	69-131	0.5	20		
Methoxychlor	0.00590	0.00050	mg/L	0.005000	118	70-157	0.7	20		
<i>Surrogate: Decachlorobiphenyl</i>	0.00417		mg/L	0.005000	83	13-186				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.00361		mg/L	0.005000	72	40-134				
Matrix Spike (P5G0087-MS1)										
Source: 5070005-04										
Prepared & Analyzed: 07/07/15										
Dieldrin	0.00434	0.00050	mg/L	0.005000	BRL	87	27-148			
Endrin	0.00437	0.00050	mg/L	0.005000	BRL	87	35-165			
gamma-BHC	0.00437	0.00050	mg/L	0.005000	BRL	87	45-150			
Heptachlor	0.00600	0.00050	mg/L	0.005000	BRL	120	38-150			
Heptachlor Epoxide	0.00420	0.00050	mg/L	0.005000	BRL	84	40-141			
Methoxychlor	0.00606	0.00050	mg/L	0.005000	BRL	121	37-187			
<i>Surrogate: Decachlorobiphenyl</i>	0.00432		mg/L	0.005000	86	13-186				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.00399		mg/L	0.005000	80	40-134				
Matrix Spike Dup (P5G0087-MSD1)										
Source: 5070005-04										
Prepared & Analyzed: 07/07/15										
Dieldrin	0.00457	0.00050	mg/L	0.005000	BRL	91	27-148	5	28	
Endrin	0.00464	0.00050	mg/L	0.005000	BRL	93	35-165	6	27	
gamma-BHC	0.00456	0.00050	mg/L	0.005000	BRL	91	45-150	4	32	
Heptachlor	0.00625	0.00050	mg/L	0.005000	BRL	125	38-150	4	36	
Heptachlor Epoxide	0.00440	0.00050	mg/L	0.005000	BRL	88	40-141	5	36	
Methoxychlor	0.00645	0.00050	mg/L	0.005000	BRL	129	37-187	6	34	
<i>Surrogate: Decachlorobiphenyl</i>	0.00438		mg/L	0.005000	88	13-186				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.00373		mg/L	0.005000	75	40-134				

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Project: Duke Diet & Fitness

Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0019 - MADEP VPH (W)

Blank (P5G0019-BLK1) Prepared: 07/01/15 Analyzed: 07/02/15

C5-C8 Aliphatics	BRL	50	ug/L							
C9-C12 Aliphatics	BRL	50	ug/L							
C9-C10 Aromatics	BRL	50	ug/L							
Surrogate: 2,5-Dibromotoluene (PID)	88.8		ug/L	100.0		89	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	89.8		ug/L	100.0		90	70-130			

LCS (P5G0019-BS1)

Prepared: 07/01/15 Analyzed: 07/02/15

C5-C8 Aliphatics	279	50	ug/L	300.0		93	70-130			
C9-C10 Aromatics	98.9	50	ug/L	100.0		99	70-130			
C9-C12 Aliphatic	264	50	ug/L	300.0		88	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	94.3		ug/L	100.0		94	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	94.5		ug/L	100.0		95	70-130			

LCS Dup (P5G0019-BSD1)

Prepared: 07/01/15 Analyzed: 07/02/15

C5-C8 Aliphatics	291	50	ug/L	300.0		97	70-130	4	50	
C9-C10 Aromatics	101	50	ug/L	100.0		101	70-130	2	50	
C9-C12 Aliphatic	278	50	ug/L	300.0		93	70-130	5	50	
Surrogate: 2,5-Dibromotoluene (PID)	98.1		ug/L	100.0		98	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	98.4		ug/L	100.0		98	70-130			

Batch P5G0058 - MADEP VPH (S)

Blank (P5G0058-BLK1) Prepared & Analyzed: 07/06/15

C5-C8 Aliphatics	BRL	5.0	mg/kg wet							
C9-C12 Aliphatics	BRL	5.0	mg/kg wet							
C9-C10 Aromatics	BRL	5.0	mg/kg wet							
Surrogate: 2,5-Dibromotoluene (PID)	9.73		mg/kg wet	10.67		91	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	9.88		mg/kg wet	10.67		93	70-130			

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Froehling & Robertson, Inc. (Raleigh)
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 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0058 - MADEP VPH (S)

LCS (P5G0058-BS1) Prepared & Analyzed: 07/06/15									
C5-C8 Aliphatics	33.5	5.0	mg/kg wet	32.00	105	70-130			
C9-C10 Aromatics	10.8	5.0	mg/kg wet	10.67	101	70-130			
C9-C12 Aliphatic	32.2	5.0	mg/kg wet	32.00	101	70-130			
<i>Surrogate: 2,5-Dibromotoluene (PID)</i>	9.86		<i>mg/kg wet</i>	<i>10.67</i>	92	70-130			
<i>Surrogate: 2,5-Dibromotoluene (FID)</i>	9.88		<i>mg/kg wet</i>	<i>10.67</i>	93	70-130			
LCS Dup (P5G0058-BSD1) Prepared & Analyzed: 07/06/15									
C5-C8 Aliphatics	33.3	5.0	mg/kg wet	32.00	104	70-130	0.6	50	
C9-C10 Aromatics	10.8	5.0	mg/kg wet	10.67	101	70-130	0.5	50	
C9-C12 Aliphatic	32.5	5.0	mg/kg wet	32.00	102	70-130	0.8	50	
<i>Surrogate: 2,5-Dibromotoluene (PID)</i>	10.1		<i>mg/kg wet</i>	<i>10.67</i>	95	70-130			
<i>Surrogate: 2,5-Dibromotoluene (FID)</i>	10.2		<i>mg/kg wet</i>	<i>10.67</i>	95	70-130			

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Project: Duke Diet & Fitness

Prism Work Order: 5070005
Time Submitted: 7/1/2015 8:15:00AM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0047 - MADEP EPH (W)										
Blank (P5G0047-BLK1)										
Prepared: 07/06/15 Analyzed: 07/07/15										
C9-C18 Aliphatics	BRL	100	ug/L							
C19-C36 Aliphatics	BRL	100	ug/L							
C11-C22 Aromatics	BRL	100	ug/L							
Surrogate: 1-Chlorooctadecane	17.8		ug/L	20.00		89	40-140			
Surrogate: o-Terphenyl	15.9		ug/L	20.00		79	40-140			
Surrogate: 2-Fluorobiphenyl	34.2		ug/L	40.00		86	40-140			
Surrogate: 2-Bromonaphthalene	36.1		ug/L	40.00		90	40-140			
LCS (P5G0047-BS1)										
Prepared: 07/06/15 Analyzed: 07/07/15										
C9-C18 Aliphatics	468	100	ug/L	600.0		78	40-140			
C19-C36 Aliphatics	1040	100	ug/L	800.0		130	40-140			
C11-C22 Aromatics	1270	100	ug/L	1700		75	40-140			
Surrogate: 1-Chlorooctadecane	19.0		ug/L	20.00		95	40-140			
Surrogate: o-Terphenyl	14.1		ug/L	20.00		71	40-140			
Surrogate: 2-Fluorobiphenyl	31.9		ug/L	40.00		80	40-140			
Surrogate: 2-Bromonaphthalene	33.1		ug/L	40.00		83	40-140			
LCS Dup (P5G0047-BSD1)										
Prepared: 07/06/15 Analyzed: 07/07/15										
C9-C18 Aliphatics	518	100	ug/L	600.0		86	40-140	10	50	
C19-C36 Aliphatics	1120	100	ug/L	800.0		140	40-140	7	50	
C11-C22 Aromatics	1480	100	ug/L	1700		87	40-140	15	50	
Surrogate: 1-Chlorooctadecane	17.1		ug/L	20.00		86	40-140			
Surrogate: o-Terphenyl	15.5		ug/L	20.00		77	40-140			
Surrogate: 2-Fluorobiphenyl	31.2		ug/L	40.00		78	40-140			
Surrogate: 2-Bromonaphthalene	32.8		ug/L	40.00		82	40-140			
Matrix Spike (P5G0047-MS1)										
Source: 5070005-17 Prepared: 07/06/15 Analyzed: 07/07/15										
C9-C18 Aliphatics	972	200	ug/L	1200	BRL	81	40-140			
C19-C36 Aliphatics	2060	200	ug/L	1600	BRL	129	40-140			
C11-C22 Aromatics	2950	200	ug/L	3400	BRL	87	40-140			
Surrogate: 1-Chlorooctadecane	34.4		ug/L	40.00		86	40-140			
Surrogate: o-Terphenyl	32.5		ug/L	40.00		81	40-140			
Surrogate: 2-Fluorobiphenyl	65.6		ug/L	80.00		82	40-140			
Surrogate: 2-Bromonaphthalene	66.7		ug/L	80.00		83	40-140			

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 Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0047 - MADEP EPH (W)

Matrix Spike Dup (P5G0047-MSD1)	Source: 5070005-17			Prepared: 07/06/15 Analyzed: 07/07/15					
C9-C18 Aliphatics	1030	200	ug/L	1200	BRL	86	40-140	6	50
C19-C36 Aliphatics	2220	200	ug/L	1600	BRL	138	40-140	7	50
C11-C22 Aromatics	2760	200	ug/L	3400	BRL	81	40-140	6	50
Surrogate: 1-Chlorooctadecane	34.5		ug/L	40.00		86	40-140		
Surrogate: o-Terphenyl	29.8		ug/L	40.00		74	40-140		
Surrogate: 2-Fluorobiphenyl	62.2		ug/L	80.00		78	40-140		
Surrogate: 2-Bromonaphthalene	60.2		ug/L	80.00		75	40-140		

Batch P5G0052 - 3546

Blank (P5G0052-BLK1)	Prepared: 07/06/15 Analyzed: 07/07/15						
C9-C18 Aliphatics	BRL	10	mg/kg wet				
C19-C36 Aliphatics	BRL	10	mg/kg wet				
C11-C22 Aromatics	BRL	10	mg/kg wet				
Surrogate: 1-Chlorooctadecane	1.58		mg/kg wet	2.000		79	40-140
Surrogate: o-Terphenyl	1.34		mg/kg wet	2.000		67	40-140
Surrogate: 2-Fluorobiphenyl	2.72		mg/kg wet	4.000		68	40-140
Surrogate: 2-Bromonaphthalene	2.96		mg/kg wet	4.000		74	40-140

LCS (P5G0052-BS1)	Prepared: 07/06/15 Analyzed: 07/07/15						
C9-C18 Aliphatics	45.6	10	mg/kg wet	60.00		76	40-140
C19-C36 Aliphatics	92.9	10	mg/kg wet	80.00		116	40-140
C11-C22 Aromatics	132	10	mg/kg wet	170.0		78	40-140
Surrogate: 1-Chlorooctadecane	1.55		mg/kg wet	2.000		78	40-140
Surrogate: o-Terphenyl	1.45		mg/kg wet	2.000		73	40-140
Surrogate: 2-Fluorobiphenyl	3.00		mg/kg wet	4.000		75	40-140
Surrogate: 2-Bromonaphthalene	3.21		mg/kg wet	4.000		80	40-140

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Project: Duke Diet & Fitness

 Prism Work Order: 5070005
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Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0052 - 3546										
LCS Dup (P5G0052-BSD1)										
Prepared: 07/06/15 Analyzed: 07/07/15										
C9-C18 Aliphatics	48.6	10	mg/kg wet	60.00	81	40-140	6	50		
C19-C36 Aliphatics	95.6	10	mg/kg wet	80.00	119	40-140	3	50		
C11-C22 Aromatics	138	10	mg/kg wet	170.0	81	40-140	4	50		
Surrogate: 1-Chlorooctadecane	1.84		mg/kg wet	2.000	92	40-140				
Surrogate: o-Terphenyl	1.56		mg/kg wet	2.000	78	40-140				
Surrogate: 2-Fluorobiphenyl	2.93		mg/kg wet	4.000	73	40-140				
Surrogate: 2-Bromonaphthalene	3.19		mg/kg wet	4.000	80	40-140				
Matrix Spike (P5G0052-MS1)										
Source: 5070005-15 Prepared: 07/06/15 Analyzed: 07/07/15										
C9-C18 Aliphatics	50.2	11	mg/kg dry	68.53	1.35	71	40-140			
C19-C36 Aliphatics	107	11	mg/kg dry	91.37	2.74	114	40-140			
C11-C22 Aromatics	160	11	mg/kg dry	194.2	16.5	74	40-140			
Surrogate: 1-Chlorooctadecane	1.76		mg/kg dry	2.284		77	40-140			
Surrogate: o-Terphenyl	1.57		mg/kg dry	2.284		69	40-140			
Surrogate: 2-Fluorobiphenyl	3.08		mg/kg dry	4.569		68	40-140			
Surrogate: 2-Bromonaphthalene	3.24		mg/kg dry	4.569		71	40-140			
Matrix Spike Dup (P5G0052-MSD1)										
Source: 5070005-15 Prepared: 07/06/15 Analyzed: 07/07/15										
C9-C18 Aliphatics	51.1	11	mg/kg dry	68.39	1.35	73	40-140	2	50	
C19-C36 Aliphatics	111	11	mg/kg dry	91.19	2.74	119	40-140	4	50	
C11-C22 Aromatics	152	11	mg/kg dry	193.8	16.5	70	40-140	5	50	
Surrogate: 1-Chlorooctadecane	1.83		mg/kg dry	2.280		80	40-140			
Surrogate: o-Terphenyl	1.47		mg/kg dry	2.280		64	40-140			
Surrogate: 2-Fluorobiphenyl	3.12		mg/kg dry	4.559		68	40-140			
Surrogate: 2-Bromonaphthalene	3.29		mg/kg dry	4.559		72	40-140			

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

 Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

TCLP Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0082 - 7470A

Blank (P5G0082-BLK1)	Prepared & Analyzed: 07/07/15								
Mercury	BRL	0.010	mg/L						
LCS (P5G0082-BS1)	Prepared & Analyzed: 07/07/15								
Mercury	0.00960	0.010	mg/L	0.009375		102	80-120		
Matrix Spike (P5G0082-MS1)	Source: 5070005-04 Prepared & Analyzed: 07/07/15								
Mercury	0.00982	0.010	mg/L	0.009375	BRL	105	80-120		
Matrix Spike Dup (P5G0082-MSD1)	Source: 5070005-04 Prepared & Analyzed: 07/07/15								
Mercury	0.00973	0.010	mg/L	0.009375	BRL	104	80-120	1	20

Batch P5G0083 - 3010A

Blank (P5G0083-BLK1)	Prepared & Analyzed: 07/07/15							
Arsenic	BRL	0.050	mg/L					
Barium	BRL	5.0	mg/L					
Cadmium	BRL	0.025	mg/L					
Chromium	BRL	0.25	mg/L					
Lead	BRL	0.050	mg/L					
Selenium	BRL	0.10	mg/L					
Silver	BRL	0.25	mg/L					
LCS (P5G0083-BS1)	Prepared & Analyzed: 07/07/15							
Arsenic	1.25	0.050	mg/L	1.250		100	80-120	
Barium	1.29	5.0	mg/L	1.250		103	80-120	
Cadmium	1.28	0.025	mg/L	1.250		102	80-120	
Chromium	1.28	0.25	mg/L	1.250		102	80-120	
Lead	1.28	0.050	mg/L	1.250		103	80-120	
Selenium	1.28	0.10	mg/L	1.250		102	80-120	
Silver	0.505	0.25	mg/L	0.5000		101	80-120	

Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness

Prism Work Order: 5070005
 Time Submitted: 7/1/2015 8:15:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0030 - Solids, Dry Weight

Blank (P5G0030-BLK1)										
% Solids	100	0.100	% by Weight							
Duplicate (P5G0030-DUP3)		Source: 5070005-10								
% Solids	89.4	0.100	% by Weight		88.4			1	20	

Sample Extraction Data

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5070005-01	P5G0052	10.03 g	2 mL	07/06/15 9:00
5070005-02	P5G0052	10.02 g	2 mL	07/06/15 9:00
5070005-03	P5G0052	10.03 g	2 mL	07/06/15 9:00
5070005-05	P5G0052	10.01 g	2 mL	07/06/15 9:00
5070005-07	P5G0052	10 g	2 mL	07/06/15 9:00
5070005-08	P5G0052	10.02 g	2 mL	07/06/15 9:00
5070005-09	P5G0052	10.02 g	2 mL	07/06/15 9:00
5070005-10	P5G0052	10 g	2 mL	07/06/15 9:00
5070005-11	P5G0052	10.02 g	2 mL	07/06/15 9:00
5070005-12	P5G0052	10 g	2 mL	07/06/15 9:00
5070005-13	P5G0052	10 g	2 mL	07/06/15 9:00
5070005-14	P5G0052	10 g	2 mL	07/06/15 9:00
5070005-15	P5G0052	10 g	2 mL	07/06/15 9:00
5070005-16	P5G0052	10 g	2 mL	07/06/15 9:00

Prep Method: MADEP EPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5070005-17	P5G0047	1000 mL	2 mL	07/06/15 8:45
5070005-18	P5G0047	1000 mL	2 mL	07/06/15 8:45
5070005-19	P5G0047	1000 mL	2 mL	07/06/15 8:45
5070005-20	P5G0047	1000 mL	2 mL	07/06/15 8:45
5070005-21	P5G0047	1000 mL	2 mL	07/06/15 8:45

Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
5070005-01	P5G0030	30 g	30 g	07/02/15 10:46
5070005-02	P5G0030	30 g	30 g	07/02/15 10:46
5070005-03	P5G0030	30 g	30 g	07/02/15 10:46
5070005-05	P5G0030	30 g	30 g	07/02/15 10:46
5070005-07	P5G0030	30 g	30 g	07/02/15 10:46
5070005-08	P5G0030	30 g	30 g	07/02/15 10:46
5070005-09	P5G0030	30 g	30 g	07/02/15 10:46
5070005-10	P5G0030	30 g	30 g	07/02/15 10:46
5070005-11	P5G0030	30 g	30 g	07/02/15 10:46
5070005-12	P5G0030	30 g	30 g	07/02/15 10:46
5070005-13	P5G0030	30 g	30 g	07/02/15 10:46
5070005-14	P5G0030	30 g	30 g	07/02/15 10:46
5070005-15	P5G0030	30 g	30 g	07/02/15 10:46
5070005-16	P5G0030	30 g	30 g	07/02/15 10:46

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
5070005-17	P5G0003	1000 mL	1 mL	07/02/15 7:40
5070005-18	P5G0003	1000 mL	1 mL	07/02/15 7:40
5070005-19	P5G0003	1000 mL	1 mL	07/02/15 7:40
5070005-20	P5G0003	1000 mL	1 mL	07/02/15 7:40
5070005-21	P5G0003	1000 mL	1 mL	07/02/15 7:40

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5070005-01	P5G0053	30.02 g	1 mL	07/06/15 9:30
5070005-02	P5G0053	30 g	1 mL	07/06/15 9:30
5070005-03	P5G0053	30.05 g	1 mL	07/06/15 9:30

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Sample Extraction Data

Prep Method: 3546

Lab Number	Batch	Initial	Final	Date/Time
5070005-05	P5G0053	30 g	1 mL	07/06/15 9:30
5070005-07	P5G0053	30.02 g	1 mL	07/06/15 9:30
5070005-08	P5G0053	30.03 g	1 mL	07/06/15 9:30
5070005-09	P5G0053	30 g	1 mL	07/06/15 9:30
5070005-10	P5G0053	30 g	1 mL	07/06/15 9:30
5070005-11	P5G0053	30.02 g	1 mL	07/06/15 9:30
5070005-12	P5G0053	30 g	1 mL	07/06/15 9:30
5070005-13	P5G0053	30 g	1 mL	07/06/15 9:30
5070005-14	P5G0053	30 g	1 mL	07/06/15 9:30
5070005-15	P5G0053	30 g	1 mL	07/06/15 9:30
5070005-16	P5G0053	30 g	1 mL	07/06/15 9:30

Prep Method: 1311

Lab Number	Batch	Initial	Final	Date/Time
5070005-04	P5G0069	100 g	2000 mL	07/06/15 14:40
5070005-04	P5G0070	100 g	2000 mL	07/06/15 14:40
5070005-04	P5G0073	25 g	500 mL	07/06/15 15:00
5070005-06	P5G0070	100 g	2000 mL	07/06/15 14:40
5070005-06	P5G0073	25 g	500 mL	07/06/15 15:00
5070005-06	P5G0069	100 g	2000 mL	07/06/15 14:40

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
5070005-04	P5G0083	10 mL	50 mL	07/07/15 9:55
5070005-06	P5G0083	10 mL	50 mL	07/07/15 9:55

Prep Method: 7470A

Lab Number	Batch	Initial	Final	Date/Time
5070005-04	P5G0082	20 mL	30 mL	07/07/15 9:25
5070005-06	P5G0082	20 mL	30 mL	07/07/15 9:25

Prep Method: 3510C GC

Lab Number	Batch	Initial	Final	Date/Time
5070005-04	P5G0087	200 mL	10 mL	07/07/15 10:45
5070005-06	P5G0087	200 mL	10 mL	07/07/15 10:45

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
5070005-04	P5G0086	200 mL	1 mL	07/07/15 10:00
5070005-06	P5G0086	200 mL	1 mL	07/07/15 10:00

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5070005-04	P5G0096	1 mL	10 mL	07/07/15 9:24
5070005-06	P5G0096	1 mL	10 mL	07/07/15 9:24

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5070005-17	P5G0039	10 mL	10 mL	07/02/15 12:35
5070005-18	P5G0039	10 mL	10 mL	07/02/15 12:35
5070005-19	P5G0039	10 mL	10 mL	07/02/15 12:35

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Sample Extraction Data

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5070005-20	P5G0039	10 mL	10 mL	07/02/15 12:35
5070005-21	P5G0039	10 mL	10 mL	07/02/15 12:35

Prep Method: 5035

Lab Number	Batch	Initial	Final	Date/Time
5070005-01	P5G0040	7.09 g	5 mL	07/02/15 12:34
5070005-02	P5G0040	6.88 g	5 mL	07/02/15 12:34
5070005-03	P5G0040	5.66 g	5 mL	07/02/15 12:34
5070005-05	P5G0040	8.51 g	5 mL	07/02/15 12:34
5070005-07	P5G0040	6.47 g	5 mL	07/02/15 12:34
5070005-08	P5G0040	6.38 g	5 mL	07/02/15 12:34
5070005-09	P5G0040	6.2 g	5 mL	07/02/15 12:34
5070005-10	P5G0040	5.93 g	5 mL	07/02/15 12:34
5070005-11	P5G0040	5.17 g	5 mL	07/02/15 12:34
5070005-12	P5G0040	5.65 g	5 mL	07/02/15 12:34
5070005-13	P5G0040	5.83 g	5 mL	07/02/15 12:34
5070005-14	P5G0040	6 g	5 mL	07/02/15 12:34
5070005-15	P5G0040	6.14 g	5 mL	07/02/15 12:34
5070005-16	P5G0040	5.53 g	5 mL	07/02/15 12:34

Prep Method: MADEP VPH (S)

Lab Number	Batch	Initial	Final	Date/Time
5070005-01	P5G0058	21.82 g	16 mL	07/06/15 11:56
5070005-02	P5G0058	21.22 g	16 mL	07/06/15 11:56
5070005-03	P5G0058	15.7 g	16 mL	07/06/15 11:56
5070005-05	P5G0058	18.58 g	16 mL	07/06/15 11:56
5070005-07	P5G0058	14.02 g	16 mL	07/06/15 11:56
5070005-08	P5G0058	20.2 g	16 mL	07/06/15 11:56
5070005-09	P5G0058	19.84 g	16 mL	07/06/15 11:56
5070005-10	P5G0058	15.84 g	16 mL	07/06/15 11:56
5070005-11	P5G0058	16.74 g	16 mL	07/06/15 11:56
5070005-12	P5G0058	17.36 g	16 mL	07/06/15 11:56
5070005-13	P5G0058	18.44 g	16 mL	07/06/15 11:56
5070005-14	P5G0058	18.81 g	16 mL	07/06/15 11:56
5070005-15	P5G0058	18.65 g	16 mL	07/06/15 11:56
5070005-16	P5G0058	16.97 g	16 mL	07/06/15 11:56

Prep Method: MADEP VPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5070005-17	P5G0019	44 mL	44 mL	07/01/15 13:03
5070005-18	P5G0019	44 mL	44 mL	07/01/15 13:03
5070005-19	P5G0019	44 mL	44 mL	07/01/15 13:03
5070005-20	P5G0019	44 mL	44 mL	07/01/15 13:03
5070005-21	P5G0019	44 mL	44 mL	07/01/15 13:03

Subcontracted Analyses

The following analyses were subcontracted to Analytical Environmental Services , Inc.

Lab Number	Analysis
5070005-04	Herbicides TCLP (Sub)
5070005-06	Herbicides TCLP (Sub)

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Analytical Environmental Services, Inc

Date: 10-Jul-15

Client: Prism Laboratories	Client Sample ID: SB-35 1'
Project Name: 5070005	Collection Date: 6/29/2015 1:15:00 PM
Lab ID: 1507438-001	Matrix: Solid

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
HERBICIDES, TCLP SW1311/8151A (SW3510C)									
2,4,5-TP (Silvex)	BRL	0.017	0.20	mg/L	209919	1	07/10/2015 13:58	RF	
2,4-D	BRL	0.031	0.20	mg/L	209919	1	07/10/2015 13:58	RF	
Surr: DCAA	79.7	0	49.6-143	%REC	209919	1	07/10/2015 13:58	RF	

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc

Date: 10-Jul-15

Client: Prism Laboratories	Client Sample ID: SB-42 1'
Project Name: 5070005	Collection Date: 6/29/2015 6:15:00 PM
Lab ID: 1507438-002	Matrix: Solid

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
HERBICIDES, TCLP SW1311/8151A (SW3510C)									
2,4,5-TP (Silvex)	BRL	0.017	0.20	mg/L	209919	1	07/10/2015 14:29	RF	
2,4-D	BRL	0.031	0.20	mg/L	209919	1	07/10/2015 14:29	RF	
Surrogate: DCAA	84.8	0	49.6-143	%REC	209919	1	07/10/2015 14:29	RF	

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative



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Case Narrative

07/09/2015

Froehling & Robertson, Inc. (Raleigh)
Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Project No.: Duke Diet & Fitness Rush
Lab Submittal Date: 07/02/2015
Prism Work Order: 5070023

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Terri W. Cole For Angela D. Overcash
Project Manager

Data Qualifiers Key Reference:

- A LCS/LCSD result is below the control limits. CCV recovery within the limits. Analyte not detected in the sample down to the MDL. No further action taken.
- CVL CCV result is below the control limits. LCS recovery within the limits. Analyte not detected in the sample. No further action taken.
- D RPD value outside of the control limits.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- L1 LCS recovery outside of the QC limits. LCSD recovery within the limits. No further action taken.
- L2 LCSD recovery outside of the QC limits. LCS recovery within the limits. No further action taken.
- LH High LCS recovery. Analyte not detected in the sample(s). No further action taken.
- SR Surrogate recovery outside the QC limits.
- BRL Below Reporting Limit
- MDL Method Detection Limit
- RPD Relative Percent Difference
- * Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
SB-30 GW	5070023-01	Water	07/01/15	07/02/15
SB-31 GW	5070023-02	Water	06/29/15	07/02/15

Samples were received in good condition at 1.6 degrees C unless otherwise noted.

Prism ID	Client ID	Parameter	Method	Result	Units
5070023-01	SB-30 GW	Acetone	8260B	13	ug/L
5070023-02	SB-31 GW	Benzoic Acid	8270D	2.8 J	ug/L
5070023-02	SB-31 GW	Acetone	8260B	2.9 J	ug/L

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Project No.: Duke Diet & Fitness Rush
Sample Matrix: Water

Client Sample ID: SB-30 GW
Prism Sample ID: 5070023-01
Prism Work Order: 5070023
Time Collected: 07/01/15 09:45
Time Submitted: 07/02/15 07:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 16:20	MSC	P5G0039
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 16:20	MSC	P5G0039
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	7/2/15 16:20	MSC	P5G0039
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 16:20	MSC	P5G0039
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	7/2/15 16:20	MSC	P5G0039
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	7/2/15 16:20	MSC	P5G0039
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 16:20	MSC	P5G0039
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	7/2/15 16:20	MSC	P5G0039
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	7/2/15 16:20	MSC	P5G0039
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	7/2/15 16:20	MSC	P5G0039
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 16:20	MSC	P5G0039
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	7/2/15 16:20	MSC	P5G0039
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 16:20	MSC	P5G0039
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 16:20	MSC	P5G0039
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 16:20	MSC	P5G0039
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 16:20	MSC	P5G0039
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 16:20	MSC	P5G0039
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 16:20	MSC	P5G0039
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	7/2/15 16:20	MSC	P5G0039
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 16:20	MSC	P5G0039
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	7/2/15 16:20	MSC	P5G0039
2-Chloroethyl Vinyl Ether	BRL CVL	ug/L	5.0	0.37	1	8260B	7/2/15 16:20	MSC	P5G0039
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 16:20	MSC	P5G0039
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 16:20	MSC	P5G0039
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	7/2/15 16:20	MSC	P5G0039
Acetone	13	ug/L	5.0	0.31	1	8260B	7/2/15 16:20	MSC	P5G0039
Acrolein	BRL	ug/L	20	0.20	1	8260B	7/2/15 16:20	MSC	P5G0039
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	7/2/15 16:20	MSC	P5G0039
Benzene	BRL	ug/L	0.50	0.048	1	8260B	7/2/15 16:20	MSC	P5G0039
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	7/2/15 16:20	MSC	P5G0039
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	7/2/15 16:20	MSC	P5G0039
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 16:20	MSC	P5G0039
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	7/2/15 16:20	MSC	P5G0039
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	7/2/15 16:20	MSC	P5G0039
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	7/2/15 16:20	MSC	P5G0039
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 16:20	MSC	P5G0039
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 16:20	MSC	P5G0039
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	7/2/15 16:20	MSC	P5G0039
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 16:20	MSC	P5G0039
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 16:20	MSC	P5G0039
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	7/2/15 16:20	MSC	P5G0039
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 16:20	MSC	P5G0039

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Project No.: Duke Diet & Fitness Rush
Sample Matrix: Water

Client Sample ID: SB-30 GW
Prism Sample ID: 5070023-01
Prism Work Order: 5070023
Time Collected: 07/01/15 09:45
Time Submitted: 07/02/15 07:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	7/2/15 16:20	MSC	P5G0039
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	7/2/15 16:20	MSC	P5G0039
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	7/2/15 16:20	MSC	P5G0039
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 16:20	MSC	P5G0039
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	7/2/15 16:20	MSC	P5G0039
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 16:20	MSC	P5G0039
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 16:20	MSC	P5G0039
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	7/2/15 16:20	MSC	P5G0039
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	7/2/15 16:20	MSC	P5G0039
Methyl Ethyl Ketone (2-Butanone)	BRL A	ug/L	5.0	0.24	1	8260B	7/2/15 16:20	MSC	P5G0039
Methyl Isobutyl Ketone	BRL A	ug/L	5.0	0.078	1	8260B	7/2/15 16:20	MSC	P5G0039
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	7/2/15 16:20	MSC	P5G0039
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	7/2/15 16:20	MSC	P5G0039
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	7/2/15 16:20	MSC	P5G0039
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	7/2/15 16:20	MSC	P5G0039
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	7/2/15 16:20	MSC	P5G0039
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 16:20	MSC	P5G0039
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 16:20	MSC	P5G0039
Styrene	BRL	ug/L	0.50	0.047	1	8260B	7/2/15 16:20	MSC	P5G0039
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	7/2/15 16:20	MSC	P5G0039
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	7/2/15 16:20	MSC	P5G0039
Toluene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 16:20	MSC	P5G0039
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	7/2/15 16:20	MSC	P5G0039
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	7/2/15 16:20	MSC	P5G0039
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	7/2/15 16:20	MSC	P5G0039
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 16:20	MSC	P5G0039
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	7/2/15 16:20	MSC	P5G0039
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	7/2/15 16:20	MSC	P5G0039

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	90 %	80-124
Dibromofluoromethane	105 %	75-129
Toluene-d8	97 %	77-123

Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Project No.: Duke Diet & Fitness Rush
Sample Matrix: Water

Client Sample ID: SB-31 GW
Prism Sample ID: 5070023-02
Prism Work Order: 5070023
Time Collected: 06/29/15 14:30
Time Submitted: 07/02/15 07:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Extractable Petroleum Hydrocarbons by GC/FID									
C9-C18 Aliphatics	BRL	ug/L	150	14	1	MADEP EPH	7/7/15 18:45	ZRC	P5G0047
C19-C36 Aliphatics	BRL	ug/L	150	41	1	MADEP EPH	7/7/15 18:45	ZRC	P5G0047
C11-C22 Aromatics	BRL	ug/L	150	19	1	MADEP EPH	7/7/15 18:45	ZRC	P5G0047
						Surrogate	Recovery		Control Limits
						1-Chlorooctadecane	48 %		40-140
						o-Terphenyl	61 %		40-140
						2-Fluorobiphenyl	69 %		40-140
						2-Bromonaphthalene	70 %		40-140
Semivolatile Organic Compounds by GC/MS									
1,2,4-Trichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/7/15 20:35	JMV	P5G0063
1,2-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/7/15 20:35	JMV	P5G0063
1,3-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/7/15 20:35	JMV	P5G0063
1,4-Dichlorobenzene	BRL	ug/L	10	2.5	1	8270D	7/7/15 20:35	JMV	P5G0063
1-Methylnaphthalene	BRL	ug/L	10	2.4	1	8270D	7/7/15 20:35	JMV	P5G0063
2,4,5-Trichlorophenol	BRL	ug/L	10	2.3	1	8270D	7/7/15 20:35	JMV	P5G0063
2,4,6-Trichlorophenol	BRL	ug/L	10	2.6	1	8270D	7/7/15 20:35	JMV	P5G0063
2,4-Dichlorophenol	BRL	ug/L	10	2.4	1	8270D	7/7/15 20:35	JMV	P5G0063
2,4-Dimethylphenol	BRL	ug/L	10	2.3	1	8270D	7/7/15 20:35	JMV	P5G0063
2,4-Dinitrophenol	BRL	ug/L	10	3.7	1	8270D	7/7/15 20:35	JMV	P5G0063
2,4-Dinitrotoluene	BRL	ug/L	10	1.9	1	8270D	7/7/15 20:35	JMV	P5G0063
2,6-Dinitrotoluene	BRL	ug/L	10	2.0	1	8270D	7/7/15 20:35	JMV	P5G0063
2-Chloronaphthalene	BRL	ug/L	10	3.4	1	8270D	7/7/15 20:35	JMV	P5G0063
2-Chlorophenol	BRL	ug/L	10	2.4	1	8270D	7/7/15 20:35	JMV	P5G0063
2-Methylnaphthalene	BRL	ug/L	10	2.2	1	8270D	7/7/15 20:35	JMV	P5G0063
2-Methylphenol	BRL	ug/L	10	2.1	1	8270D	7/7/15 20:35	JMV	P5G0063
2-Nitroaniline	BRL	ug/L	10	2.2	1	8270D	7/7/15 20:35	JMV	P5G0063
2-Nitrophenol	BRL	ug/L	10	2.4	1	8270D	7/7/15 20:35	JMV	P5G0063
3,3'-Dichlorobenzidine	BRL	ug/L	10	2.2	1	8270D	7/7/15 20:35	JMV	P5G0063
3/4-Methylphenol	BRL	ug/L	10	1.9	1	8270D	7/7/15 20:35	JMV	P5G0063
3-Nitroaniline	BRL	ug/L	10	1.2	1	8270D	7/7/15 20:35	JMV	P5G0063
4,6-Dinitro-2-methylphenol	BRL	ug/L	10	2.4	1	8270D	7/7/15 20:35	JMV	P5G0063
4-Bromophenyl phenyl ether	BRL	ug/L	10	1.8	1	8270D	7/7/15 20:35	JMV	P5G0063
4-Chloro-3-methylphenol	BRL	ug/L	10	1.9	1	8270D	7/7/15 20:35	JMV	P5G0063
4-Chloroaniline	BRL	ug/L	10	1.8	1	8270D	7/7/15 20:35	JMV	P5G0063
4-Chlorophenyl phenyl ether	BRL	ug/L	10	2.0	1	8270D	7/7/15 20:35	JMV	P5G0063
4-Nitroaniline	BRL	ug/L	10	2.0	1	8270D	7/7/15 20:35	JMV	P5G0063
4-Nitrophenol	BRL	ug/L	10	0.66	1	8270D	7/7/15 20:35	JMV	P5G0063
Acenaphthene	BRL	ug/L	10	2.5	1	8270D	7/7/15 20:35	JMV	P5G0063
Acenaphthylene	BRL	ug/L	10	2.5	1	8270D	7/7/15 20:35	JMV	P5G0063
Aniline	BRL	ug/L	10	2.1	1	8270D	7/7/15 20:35	JMV	P5G0063
Anthracene	BRL	ug/L	10	3.0	1	8270D	7/7/15 20:35	JMV	P5G0063
Azobenzene	BRL	ug/L	10	1.8	1	8270D	7/7/15 20:35	JMV	P5G0063

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Project No.: Duke Diet & Fitness Rush
Sample Matrix: Water

Client Sample ID: SB-31 GW
Prism Sample ID: 5070023-02
Prism Work Order: 5070023
Time Collected: 06/29/15 14:30
Time Submitted: 07/02/15 07:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Benzo(a)anthracene	BRL	ug/L	10	2.0	1	8270D	7/7/15 20:35	JMV	P5G0063
Benzo(a)pyrene	BRL	ug/L	10	2.4	1	8270D	7/7/15 20:35	JMV	P5G0063
Benzo(b)fluoranthene	BRL	ug/L	10	1.4	1	8270D	7/7/15 20:35	JMV	P5G0063
Benzo(g,h,i)perylene	BRL	ug/L	10	1.8	1	8270D	7/7/15 20:35	JMV	P5G0063
Benzo(k)fluoranthene	BRL	ug/L	10	2.4	1	8270D	7/7/15 20:35	JMV	P5G0063
Benzoic Acid	2.8 J	ug/L	100	2.7	1	8270D	7/7/15 20:35	JMV	P5G0063
Benzyl alcohol	BRL	ug/L	10	1.8	1	8270D	7/7/15 20:35	JMV	P5G0063
bis(2-Chloroethoxy)methane	BRL	ug/L	10	2.2	1	8270D	7/7/15 20:35	JMV	P5G0063
Bis(2-Chloroethyl)ether	BRL	ug/L	10	2.4	1	8270D	7/7/15 20:35	JMV	P5G0063
Bis(2-chloroisopropyl)ether	BRL	ug/L	10	2.2	1	8270D	7/7/15 20:35	JMV	P5G0063
Bis(2-Ethylhexyl)phthalate	BRL	ug/L	10	2.0	1	8270D	7/7/15 20:35	JMV	P5G0063
Butyl benzyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/7/15 20:35	JMV	P5G0063
Chrysene	BRL	ug/L	10	2.2	1	8270D	7/7/15 20:35	JMV	P5G0063
Dibenzo(a,h)anthracene	BRL	ug/L	10	2.0	1	8270D	7/7/15 20:35	JMV	P5G0063
Dibenzofuran	BRL	ug/L	10	2.3	1	8270D	7/7/15 20:35	JMV	P5G0063
Diethyl phthalate	BRL	ug/L	10	1.9	1	8270D	7/7/15 20:35	JMV	P5G0063
Dimethyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/7/15 20:35	JMV	P5G0063
Di-n-butyl phthalate	BRL	ug/L	10	2.0	1	8270D	7/7/15 20:35	JMV	P5G0063
Di-n-octyl phthalate	BRL	ug/L	10	1.7	1	8270D	7/7/15 20:35	JMV	P5G0063
Fluoranthene	BRL	ug/L	10	2.2	1	8270D	7/7/15 20:35	JMV	P5G0063
Fluorene	BRL	ug/L	10	2.5	1	8270D	7/7/15 20:35	JMV	P5G0063
Hexachlorobenzene	BRL	ug/L	10	1.9	1	8270D	7/7/15 20:35	JMV	P5G0063
Hexachlorobutadiene	BRL	ug/L	10	2.6	1	8270D	7/7/15 20:35	JMV	P5G0063
Hexachlorocyclopentadiene	BRL	ug/L	10	2.2	1	8270D	7/7/15 20:35	JMV	P5G0063
Hexachloroethane	BRL	ug/L	10	2.5	1	8270D	7/7/15 20:35	JMV	P5G0063
Indeno(1,2,3-cd)pyrene	BRL	ug/L	10	2.1	1	8270D	7/7/15 20:35	JMV	P5G0063
Isophorone	BRL	ug/L	10	2.5	1	8270D	7/7/15 20:35	JMV	P5G0063
Naphthalene	BRL	ug/L	10	2.4	1	8270D	7/7/15 20:35	JMV	P5G0063
Nitrobenzene	BRL	ug/L	10	2.4	1	8270D	7/7/15 20:35	JMV	P5G0063
N-Nitroso-di-n-propylamine	BRL	ug/L	10	2.5	1	8270D	7/7/15 20:35	JMV	P5G0063
N-Nitrosodiphenylamine	BRL	ug/L	10	1.8	1	8270D	7/7/15 20:35	JMV	P5G0063
Pentachlorophenol	BRL	ug/L	10	2.5	1	8270D	7/7/15 20:35	JMV	P5G0063
Phenanthrene	BRL	ug/L	10	1.8	1	8270D	7/7/15 20:35	JMV	P5G0063
Phenol	BRL	ug/L	10	1.2	1	8270D	7/7/15 20:35	JMV	P5G0063
Pyrene	BRL	ug/L	10	2.2	1	8270D	7/7/15 20:35	JMV	P5G0063
Surrogate						Recovery		Control Limits	
						2,4,6-Tribromophenol	117 %	49-109	SR
						2-Fluorobiphenyl	100 %	55-96	SR
						2-Fluorophenol	64 %	27-74	
						Nitrobenzene-d5	97 %	53-99	
						Phenol-d5	43 %	11-52	
						Terphenyl-d14	92 %	42-133	

Volatile Organic Compounds by GC/MS

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Project No.: Duke Diet & Fitness Rush
Sample Matrix: Water

Client Sample ID: SB-31 GW
Prism Sample ID: 5070023-02
Prism Work Order: 5070023
Time Collected: 06/29/15 14:30
Time Submitted: 07/02/15 07:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 15:46	MSC	P5G0039
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 15:46	MSC	P5G0039
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	7/2/15 15:46	MSC	P5G0039
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 15:46	MSC	P5G0039
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	7/2/15 15:46	MSC	P5G0039
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	7/2/15 15:46	MSC	P5G0039
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 15:46	MSC	P5G0039
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	7/2/15 15:46	MSC	P5G0039
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	7/2/15 15:46	MSC	P5G0039
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	7/2/15 15:46	MSC	P5G0039
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 15:46	MSC	P5G0039
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	7/2/15 15:46	MSC	P5G0039
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	7/2/15 15:46	MSC	P5G0039
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 15:46	MSC	P5G0039
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 15:46	MSC	P5G0039
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 15:46	MSC	P5G0039
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 15:46	MSC	P5G0039
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 15:46	MSC	P5G0039
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	7/2/15 15:46	MSC	P5G0039
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 15:46	MSC	P5G0039
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	7/2/15 15:46	MSC	P5G0039
2-Chloroethyl Vinyl Ether	BRL CVL	ug/L	5.0	0.37	1	8260B	7/2/15 15:46	MSC	P5G0039
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	7/2/15 15:46	MSC	P5G0039
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 15:46	MSC	P5G0039
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	7/2/15 15:46	MSC	P5G0039
Acetone	2.9 J	ug/L	5.0	0.31	1	8260B	7/2/15 15:46	MSC	P5G0039
Acrolein	BRL	ug/L	20	0.20	1	8260B	7/2/15 15:46	MSC	P5G0039
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	7/2/15 15:46	MSC	P5G0039
Benzene	BRL	ug/L	0.50	0.048	1	8260B	7/2/15 15:46	MSC	P5G0039
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	7/2/15 15:46	MSC	P5G0039
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	7/2/15 15:46	MSC	P5G0039
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 15:46	MSC	P5G0039
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	7/2/15 15:46	MSC	P5G0039
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	7/2/15 15:46	MSC	P5G0039
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	7/2/15 15:46	MSC	P5G0039
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	7/2/15 15:46	MSC	P5G0039
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 15:46	MSC	P5G0039
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	7/2/15 15:46	MSC	P5G0039
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 15:46	MSC	P5G0039
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 15:46	MSC	P5G0039
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	7/2/15 15:46	MSC	P5G0039
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	7/2/15 15:46	MSC	P5G0039
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	7/2/15 15:46	MSC	P5G0039

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness

Project No.: Duke Diet & Fitness Rush
Sample Matrix: Water

Client Sample ID: SB-31 GW
Prism Sample ID: 5070023-02
Prism Work Order: 5070023
Time Collected: 06/29/15 14:30
Time Submitted: 07/02/15 07:10

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	7/2/15 15:46	MSC	P5G0039
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	7/2/15 15:46	MSC	P5G0039
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	7/2/15 15:46	MSC	P5G0039
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	7/2/15 15:46	MSC	P5G0039
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	7/2/15 15:46	MSC	P5G0039
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	7/2/15 15:46	MSC	P5G0039
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	7/2/15 15:46	MSC	P5G0039
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	7/2/15 15:46	MSC	P5G0039
Methyl Ethyl Ketone (2-Butanone)	BRL A	ug/L	5.0	0.24	1	8260B	7/2/15 15:46	MSC	P5G0039
Methyl Isobutyl Ketone	BRL A	ug/L	5.0	0.078	1	8260B	7/2/15 15:46	MSC	P5G0039
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	7/2/15 15:46	MSC	P5G0039
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	7/2/15 15:46	MSC	P5G0039
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	7/2/15 15:46	MSC	P5G0039
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	7/2/15 15:46	MSC	P5G0039
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	7/2/15 15:46	MSC	P5G0039
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 15:46	MSC	P5G0039
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	7/2/15 15:46	MSC	P5G0039
Styrene	BRL	ug/L	0.50	0.047	1	8260B	7/2/15 15:46	MSC	P5G0039
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	7/2/15 15:46	MSC	P5G0039
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	7/2/15 15:46	MSC	P5G0039
Toluene	BRL	ug/L	0.50	0.044	1	8260B	7/2/15 15:46	MSC	P5G0039
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	7/2/15 15:46	MSC	P5G0039
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	7/2/15 15:46	MSC	P5G0039
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	7/2/15 15:46	MSC	P5G0039
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	7/2/15 15:46	MSC	P5G0039
Vinyl acetate	BRL	ug/L	2.0	0.060	1	8260B	7/2/15 15:46	MSC	P5G0039
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	7/2/15 15:46	MSC	P5G0039

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	92 %	80-124
Dibromofluoromethane	105 %	75-129
Toluene-d8	97 %	77-123

Volatile Petroleum Hydrocarbons by GC/PID/FID

C5-C8 Aliphatics	BRL	ug/L	50	1.2	1	MADEP VPH	7/7/15 17:42	ANG	P5G0093
C9-C12 Aliphatics	BRL	ug/L	50	1.3	1	MADEP VPH	7/7/15 17:42	ANG	P5G0093
C9-C10 Aromatics	BRL	ug/L	50	1.4	1	MADEP VPH	7/7/15 17:42	ANG	P5G0093

Surrogate	Recovery	Control Limits
2,5-Dibromotoluene (PID)	95 %	70-130
2,5-Dibromotoluene (FID)	98 %	70-130

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Project No: Duke Diet & Fitness
Rush

Prism Work Order: 5070023
Time Submitted: 7/2/2015 7:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B
Blank (P5G0039-BLK1)

Prepared & Analyzed: 07/02/15

1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L
1,1,1-Trichloroethane	BRL	0.50	ug/L
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L
1,1,2-Trichloroethane	BRL	0.50	ug/L
1,1-Dichloroethane	BRL	0.50	ug/L
1,1-Dichloroethylene	BRL	0.50	ug/L
1,1-Dichloropropylene	BRL	0.50	ug/L
1,2,3-Trichlorobenzene	BRL	2.0	ug/L
1,2,3-Trichloropropane	BRL	1.0	ug/L
1,2,4-Trichlorobenzene	BRL	1.0	ug/L
1,2,4-Trimethylbenzene	BRL	0.50	ug/L
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L
1,2-Dibromoethane	BRL	0.50	ug/L
1,2-Dichlorobenzene	BRL	0.50	ug/L
1,2-Dichloroethane	BRL	0.50	ug/L
1,2-Dichloropropane	BRL	0.50	ug/L
1,3,5-Trimethylbenzene	BRL	0.50	ug/L
1,3-Dichlorobenzene	BRL	0.50	ug/L
1,3-Dichloroproppane	BRL	0.50	ug/L
1,4-Dichlorobenzene	BRL	0.50	ug/L
2,2-Dichloropropane	BRL	2.0	ug/L
2-Chloroethyl Vinyl Ether	BRL	5.0	ug/L
2-Chlorotoluene	BRL	0.50	ug/L
4-Chlorotoluene	BRL	0.50	ug/L
4-Isopropyltoluene	BRL	0.50	ug/L
Acetone	BRL	5.0	ug/L
Acrolein	BRL	20	ug/L
Acrylonitrile	BRL	20	ug/L
Benzene	BRL	0.50	ug/L
Bromobenzene	BRL	0.50	ug/L
Bromo(chloromethane	BRL	0.50	ug/L
Bromodichloromethane	BRL	0.50	ug/L
Bromoform	BRL	1.0	ug/L
Bromomethane	BRL	1.0	ug/L
Carbon disulfide	BRL	5.0	ug/L
Carbon Tetrachloride	BRL	0.50	ug/L
Chlorobenzene	BRL	0.50	ug/L
Chloroethane	BRL	0.50	ug/L
Chloroform	BRL	0.50	ug/L
Chloromethane	BRL	0.50	ug/L
cis-1,2-Dichloroethylene	BRL	0.50	ug/L
cis-1,3-Dichloropropylene	BRL	0.50	ug/L
Dibromochloromethane	BRL	0.50	ug/L
Dibromomethane	BRL	0.50	ug/L
Dichlorodifluoromethane	BRL	1.0	ug/L
Ethylbenzene	BRL	0.50	ug/L

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

Blank (P5G0039-BLK1)	Prepared & Analyzed: 07/02/15					
Hexachlorobutadiene	BRL	2.0	ug/L			
Isopropyl Ether	BRL	0.50	ug/L			
Isopropylbenzene (Cumene)	BRL	0.50	ug/L			
m,p-Xylenes	BRL	1.0	ug/L			
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L			
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L			
Methyl Isobutyl Ketone	BRL	5.0	ug/L			
Methylene Chloride	BRL	1.0	ug/L			
Methyl-tert-Butyl Ether	BRL	0.50	ug/L			
Naphthalene	BRL	1.0	ug/L			
n-Butylbenzene	BRL	1.0	ug/L			
n-Propylbenzene	BRL	0.50	ug/L			
o-Xylene	BRL	0.50	ug/L			
sec-Butylbenzene	BRL	0.50	ug/L			
Styrene	BRL	0.50	ug/L			
tert-Butylbenzene	BRL	0.50	ug/L			
Tetrachloroethylene	BRL	0.50	ug/L			
Toluene	BRL	0.50	ug/L			
trans-1,2-Dichloroethylene	BRL	0.50	ug/L			
trans-1,3-Dichloropropylene	BRL	0.50	ug/L			
Trichloroethylene	BRL	0.50	ug/L			
Trichlorofluoromethane	BRL	0.50	ug/L			
Vinyl acetate	BRL	2.0	ug/L			
Vinyl chloride	BRL	0.50	ug/L			
Surrogate: 4-Bromofluorobenzene	22.3		ug/L	25.00	89	80-124
Surrogate: Dibromofluoromethane	26.8		ug/L	25.00	107	75-129
Surrogate: Toluene-d8	24.4		ug/L	25.00	98	77-123

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

LCS (P5G0039-BS1)	Prepared & Analyzed: 07/02/15									
1,1,1,2-Tetrachloroethane	18.9	0.50	ug/L	20.00	94	79-134				
1,1,1-Trichloroethane	17.0	0.50	ug/L	20.00	85	75-136				
1,1,2,2-Tetrachloroethane	16.7	0.50	ug/L	20.00	83	62-127				
1,1,2-Trichloroethane	18.0	0.50	ug/L	20.00	90	70-140				
1,1-Dichloroethane	17.7	0.50	ug/L	20.00	88	78-130				
1,1-Dichloroethylene	19.6	0.50	ug/L	20.00	98	70-154				
1,1-Dichloropropylene	20.6	0.50	ug/L	20.00	103	71-136				
1,2,3-Trichlorobenzene	20.6	2.0	ug/L	20.00	103	58-144				
1,2,3-Trichloropropane	17.6	1.0	ug/L	20.00	88	71-127				
1,2,4-Trichlorobenzene	20.3	1.0	ug/L	20.00	101	66-139				
1,2,4-Trimethylbenzene	18.8	0.50	ug/L	20.00	94	75-133				
1,2-Dibromo-3-chloropropane	17.3	2.0	ug/L	20.00	86	63-134				
1,2-Dibromoethane	19.8	0.50	ug/L	20.00	99	77-135				
1,2-Dichlorobenzene	20.1	0.50	ug/L	20.00	100	78-128				
1,2-Dichloroethane	17.3	0.50	ug/L	20.00	86	68-131				
1,2-Dichloropropane	18.0	0.50	ug/L	20.00	90	77-130				
1,3,5-Trimethylbenzene	18.9	0.50	ug/L	20.00	95	75-131				
1,3-Dichlorobenzene	20.8	0.50	ug/L	20.00	104	77-125				
1,3-Dichloropropane	19.1	0.50	ug/L	20.00	96	76-132				
1,4-Dichlorobenzene	20.4	0.50	ug/L	20.00	102	75-126				
2,2-Dichloropropane	18.0	2.0	ug/L	20.00	90	29-149				
2-Chloroethyl Vinyl Ether	7.69	5.0	ug/L	20.00	38	34-144				
2-Chlorotoluene	18.8	0.50	ug/L	20.00	94	74-126				
4-Chlorotoluene	19.1	0.50	ug/L	20.00	95	78-129				
4-Isopropyltoluene	19.6	0.50	ug/L	20.00	98	69-132				
Acetone	36.7	5.0	ug/L	40.00	92	40-166				
Acrolein	34.6	20	ug/L	40.00	87	70-130				
Acrylonitrile	40.3	20	ug/L	40.00	101	81-127				
Benzene	19.7	0.50	ug/L	20.00	99	77-128				
Bromobenzene	17.6	0.50	ug/L	20.00	88	78-129				
Bromochloromethane	17.3	0.50	ug/L	20.00	86	78-135				
Bromodichloromethane	16.4	0.50	ug/L	20.00	82	76-138				
Bromoform	17.6	1.0	ug/L	20.00	88	71-135				
Bromomethane	18.3	1.0	ug/L	20.00	91	41-168				
Carbon disulfide	21.5	5.0	ug/L	20.00	107	59-135				
Carbon Tetrachloride	18.8	0.50	ug/L	20.00	94	72-142				
Chlorobenzene	20.2	0.50	ug/L	20.00	101	78-119				
Chloroethane	20.4	0.50	ug/L	20.00	102	57-142				
Chloroform	16.4	0.50	ug/L	20.00	82	77-130				
Chloromethane	16.6	0.50	ug/L	20.00	83	47-145				
cis-1,2-Dichloroethylene	18.5	0.50	ug/L	20.00	92	76-141				
cis-1,3-Dichloropropylene	17.2	0.50	ug/L	20.00	86	65-140				
Dibromochloromethane	16.9	0.50	ug/L	20.00	84	75-134				
Dibromomethane	19.3	0.50	ug/L	20.00	97	76-138				
Dichlorodifluoromethane	19.9	1.0	ug/L	20.00	100	28-163				
Ethylbenzene	20.0	0.50	ug/L	20.00	100	80-127				

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Project No: Duke Diet & Fitness
Rush

Prism Work Order: 5070023
Time Submitted: 7/2/2015 7:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B
LCS (P5G0039-BS1)

Prepared & Analyzed: 07/02/15

Hexachlorobutadiene	22.3	2.0	ug/L	20.00	111	61-134				
Isopropyl Ether	16.2	0.50	ug/L	20.00	81	60-154				
Isopropylbenzene (Cumene)	21.1	0.50	ug/L	20.00	106	70-130				
m,p-Xylenes	40.5	1.0	ug/L	40.00	101	77-133				
Methyl Butyl Ketone (2-Hexanone)	11.9	5.0	ug/L	20.00	59	64-137				L1
Methyl Ethyl Ketone (2-Butanone)	13.1	5.0	ug/L	20.00	66	71-134				A
Methyl Isobutyl Ketone	12.2	5.0	ug/L	20.00	61	69-134				A
Methylene Chloride	19.0	1.0	ug/L	20.00	95	73-131				
Methyl-tert-Butyl Ether	16.8	0.50	ug/L	20.00	84	68-135				
Naphthalene	17.2	1.0	ug/L	20.00	86	64-136				
n-Butylbenzene	18.7	1.0	ug/L	20.00	94	68-134				
n-Propylbenzene	19.8	0.50	ug/L	20.00	99	72-132				
o-Xylene	19.7	0.50	ug/L	20.00	99	78-128				
sec-Butylbenzene	21.2	0.50	ug/L	20.00	106	71-131				
Styrene	20.1	0.50	ug/L	20.00	101	78-129				
tert-Butylbenzene	19.6	0.50	ug/L	20.00	98	70-132				
Tetrachloroethylene	20.5	0.50	ug/L	20.00	103	80-129				
Toluene	19.6	0.50	ug/L	20.00	98	76-131				
trans-1,2-Dichloroethylene	18.6	0.50	ug/L	20.00	93	76-135				
trans-1,3-Dichloropropylene	17.1	0.50	ug/L	20.00	86	67-140				
Trichloroethylene	19.9	0.50	ug/L	20.00	99	77-133				
Trichlorofluoromethane	23.7	0.50	ug/L	20.00	119	62-148				
Vinyl acetate	19.4	2.0	ug/L	20.00	97	34-167				
Vinyl chloride	19.1	0.50	ug/L	20.00	96	57-141				
Surrogate: 4-Bromofluorobenzene	22.0		ug/L	25.00	88	80-124				
Surrogate: Dibromofluoromethane	24.9		ug/L	25.00	100	75-129				
Surrogate: Toluene-d8	24.6		ug/L	25.00	98	77-123				

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Rush

Prism Work Order: 5070023
Time Submitted: 7/2/2015 7:10:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

LCS Dup (P5G0039-BSD1)	Prepared & Analyzed: 07/02/15								
1,1,1,2-Tetrachloroethane	19.1	0.50	ug/L	20.00	95	79-134	1	20	
1,1,1-Trichloroethane	18.1	0.50	ug/L	20.00	91	75-136	6	20	
1,1,2,2-Tetrachloroethane	16.7	0.50	ug/L	20.00	83	62-127	0	20	
1,1,2-Trichloroethane	17.8	0.50	ug/L	20.00	89	70-140	1	20	
1,1-Dichloroethane	18.8	0.50	ug/L	20.00	94	78-130	6	20	
1,1-Dichloroethylene	20.5	0.50	ug/L	20.00	103	70-154	5	20	
1,1-Dichloropropylene	21.5	0.50	ug/L	20.00	107	71-136	4	20	
1,2,3-Trichlorobenzene	20.4	2.0	ug/L	20.00	102	58-144	1	20	
1,2,3-Trichloropropane	17.9	1.0	ug/L	20.00	89	71-127	2	20	
1,2,4-Trichlorobenzene	20.2	1.0	ug/L	20.00	101	66-139	0.4	20	
1,2,4-Trimethylbenzene	19.1	0.50	ug/L	20.00	96	75-133	2	20	
1,2-Dibromo-3-chloropropane	15.8	2.0	ug/L	20.00	79	63-134	9	20	
1,2-Dibromoethane	20.1	0.50	ug/L	20.00	101	77-135	2	20	
1,2-Dichlorobenzene	20.4	0.50	ug/L	20.00	102	78-128	1	20	
1,2-Dichloroethane	18.0	0.50	ug/L	20.00	90	68-131	4	20	
1,2-Dichloropropane	18.6	0.50	ug/L	20.00	93	77-130	3	20	
1,3,5-Trimethylbenzene	19.5	0.50	ug/L	20.00	97	75-131	3	20	
1,3-Dichlorobenzene	21.0	0.50	ug/L	20.00	105	77-125	1	20	
1,3-Dichloropropane	19.8	0.50	ug/L	20.00	99	76-132	3	20	
1,4-Dichlorobenzene	20.5	0.50	ug/L	20.00	102	75-126	0.7	20	
2,2-Dichloropropane	18.8	2.0	ug/L	20.00	94	29-149	5	20	
2-Chloroethyl Vinyl Ether	7.49	5.0	ug/L	20.00	37	34-144	3	20	
2-Chlorotoluene	19.5	0.50	ug/L	20.00	98	74-126	3	20	
4-Chlorotoluene	19.6	0.50	ug/L	20.00	98	78-129	3	20	
4-Isopropyltoluene	20.6	0.50	ug/L	20.00	103	69-132	5	20	
Acetone	36.5	5.0	ug/L	40.00	91	40-166	0.7	20	
Acrolein	35.7	20	ug/L	40.00	89	70-130	3	20	
Acrylonitrile	39.4	20	ug/L	40.00	99	81-127	2	20	
Benzene	20.6	0.50	ug/L	20.00	103	77-128	4	20	
Bromobenzene	18.0	0.50	ug/L	20.00	90	78-129	2	20	
Bromochloromethane	17.3	0.50	ug/L	20.00	87	78-135	0.2	20	
Bromodichloromethane	16.6	0.50	ug/L	20.00	83	76-138	1	20	
Bromoform	18.0	1.0	ug/L	20.00	90	71-135	2	20	
Bromomethane	19.5	1.0	ug/L	20.00	97	41-168	6	20	
Carbon disulfide	22.5	5.0	ug/L	20.00	113	59-135	5	20	
Carbon Tetrachloride	19.9	0.50	ug/L	20.00	100	72-142	6	20	
Chlorobenzene	20.9	0.50	ug/L	20.00	105	78-119	4	20	
Chloroethane	21.1	0.50	ug/L	20.00	105	57-142	3	20	
Chloroform	16.7	0.50	ug/L	20.00	84	77-130	2	20	
Chloromethane	17.2	0.50	ug/L	20.00	86	47-145	3	20	
cis-1,2-Dichloroethylene	19.4	0.50	ug/L	20.00	97	76-141	5	20	
cis-1,3-Dichloropropylene	18.0	0.50	ug/L	20.00	90	65-140	5	20	
Dibromochloromethane	17.1	0.50	ug/L	20.00	85	75-134	1	20	
Dibromomethane	19.8	0.50	ug/L	20.00	99	76-138	3	20	
Dichlorodifluoromethane	20.6	1.0	ug/L	20.00	103	28-163	3	20	
Ethylbenzene	21.2	0.50	ug/L	20.00	106	80-127	6	20	

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0039 - 5030B

LCS Dup (P5G0039-BSD1)	Prepared & Analyzed: 07/02/15								
Hexachlorobutadiene	23.7	2.0	ug/L	20.00	118	61-134	6	20	
Isopropyl Ether	16.5	0.50	ug/L	20.00	83	60-154	2	20	
Isopropylbenzene (Cumene)	21.9	0.50	ug/L	20.00	110	70-130	4	20	
m,p-Xylenes	42.4	1.0	ug/L	40.00	106	77-133	4	20	
Methyl Butyl Ketone (2-Hexanone)	12.8	5.0	ug/L	20.00	64	64-137	7	20	
Methyl Ethyl Ketone (2-Butanone)	13.0	5.0	ug/L	20.00	65	71-134	0.8	20	A
Methyl Isobutyl Ketone	12.5	5.0	ug/L	20.00	63	69-134	2	20	A
Methylene Chloride	19.1	1.0	ug/L	20.00	96	73-131	0.9	20	
Methyl-tert-Butyl Ether	17.1	0.50	ug/L	20.00	85	68-135	2	20	
Naphthalene	17.2	1.0	ug/L	20.00	86	64-136	0.1	20	
n-Butylbenzene	19.5	1.0	ug/L	20.00	98	68-134	4	20	
n-Propylbenzene	20.5	0.50	ug/L	20.00	103	72-132	4	20	
o-Xylene	20.8	0.50	ug/L	20.00	104	78-128	6	20	
sec-Butylbenzene	22.1	0.50	ug/L	20.00	111	71-131	4	20	
Styrene	21.2	0.50	ug/L	20.00	106	78-129	5	20	
tert-Butylbenzene	20.4	0.50	ug/L	20.00	102	70-132	4	20	
Tetrachloroethylene	22.1	0.50	ug/L	20.00	110	80-129	7	20	
Toluene	20.7	0.50	ug/L	20.00	104	76-131	5	20	
trans-1,2-Dichloroethylene	19.4	0.50	ug/L	20.00	97	76-135	4	20	
trans-1,3-Dichloropropylene	17.0	0.50	ug/L	20.00	85	67-140	0.6	20	
Trichloroethylene	21.4	0.50	ug/L	20.00	107	77-133	8	20	
Trichlorofluoromethane	24.8	0.50	ug/L	20.00	124	62-148	4	20	
Vinyl acetate	20.0	2.0	ug/L	20.00	100	34-167	3	20	
Vinyl chloride	20.4	0.50	ug/L	20.00	102	57-141	7	20	
Surrogate: 4-Bromofluorobenzene	22.6		ug/L	25.00	90	80-124			
Surrogate: Dibromofluoromethane	25.0		ug/L	25.00	100	75-129			
Surrogate: Toluene-d8	24.4		ug/L	25.00	98	77-123			

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Project No: Duke Diet & Fitness
Rush

Prism Work Order: 5070023
Time Submitted: 7/2/2015 7:10:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0063 - 3510C MS

Blank (P5G0063-BLK1) Prepared: 07/06/15 Analyzed: 07/07/15

1,2,4-Trichlorobenzene	BRL	10	ug/L
1,2-Dichlorobenzene	BRL	10	ug/L
1,3-Dichlorobenzene	BRL	10	ug/L
1,4-Dichlorobenzene	BRL	10	ug/L
1-Methylnaphthalene	BRL	10	ug/L
2,4,5-Trichlorophenol	BRL	10	ug/L
2,4,6-Trichlorophenol	BRL	10	ug/L
2,4-Dichlorophenol	BRL	10	ug/L
2,4-Dimethylphenol	BRL	10	ug/L
2,4-Dinitrophenol	BRL	10	ug/L
2,4-Dinitrotoluene	BRL	10	ug/L
2,6-Dinitrotoluene	BRL	10	ug/L
2-Chloronaphthalene	BRL	10	ug/L
2-Chlorophenol	BRL	10	ug/L
2-Methylnaphthalene	BRL	10	ug/L
2-Methylphenol	BRL	10	ug/L
2-Nitroaniline	BRL	10	ug/L
2-Nitrophenol	BRL	10	ug/L
3,3'-Dichlorobenzidine	BRL	10	ug/L
3/4-Methylphenol	BRL	10	ug/L
3-Nitroaniline	BRL	10	ug/L
4,6-Dinitro-2-methylphenol	BRL	10	ug/L
4-Bromophenyl phenyl ether	BRL	10	ug/L
4-Chloro-3-methylphenol	BRL	10	ug/L
4-Chloroaniline	BRL	10	ug/L
4-Chlorophenyl phenyl ether	BRL	10	ug/L
4-Nitroaniline	BRL	10	ug/L
4-Nitrophenol	BRL	10	ug/L
Acenaphthene	BRL	10	ug/L
Acenaphthylene	BRL	10	ug/L
Aniline	BRL	10	ug/L
Anthracene	BRL	10	ug/L
Azobenzene	BRL	10	ug/L
Benzo(a)anthracene	BRL	10	ug/L
Benzo(a)pyrene	BRL	10	ug/L
Benzo(b)fluoranthene	BRL	10	ug/L
Benzo(g,h,i)perylene	BRL	10	ug/L
Benzo(k)fluoranthene	BRL	10	ug/L
Benzoic Acid	BRL	100	ug/L
Benzyl alcohol	BRL	10	ug/L
bis(2-Chloroethoxy)methane	BRL	10	ug/L
Bis(2-Chloroethyl)ether	BRL	10	ug/L
Bis(2-chloroisopropyl)ether	BRL	10	ug/L
Bis(2-Ethylhexyl)phthalate	BRL	10	ug/L
Butyl benzyl phthalate	BRL	10	ug/L
Chrysene	BRL	10	ug/L

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Project No: Duke Diet & Fitness
Rush

Prism Work Order: 5070023
Time Submitted: 7/2/2015 7:10:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0063 - 3510C MS
Blank (P5G0063-BLK1)

Prepared: 07/06/15 Analyzed: 07/07/15

Dibenzo(a,h)anthracene	BRL	10	ug/L							
Dibenzofuran	BRL	10	ug/L							
Diethyl phthalate	BRL	10	ug/L							
Dimethyl phthalate	BRL	10	ug/L							
Di-n-butyl phthalate	BRL	10	ug/L							
Di-n-octyl phthalate	BRL	10	ug/L							
Fluoranthene	BRL	10	ug/L							
Fluorene	BRL	10	ug/L							
Hexachlorobenzene	BRL	10	ug/L							
Hexachlorobutadiene	BRL	10	ug/L							
Hexachlorocyclopentadiene	BRL	10	ug/L							
Hexachloroethane	BRL	10	ug/L							
Indeno(1,2,3-cd)pyrene	BRL	10	ug/L							
Isophorone	BRL	10	ug/L							
Naphthalene	BRL	10	ug/L							
Nitrobenzene	BRL	10	ug/L							
N-Nitroso-di-n-propylamine	BRL	10	ug/L							
N-Nitrosodiphenylamine	BRL	10	ug/L							
Pentachlorophenol	BRL	10	ug/L							
Phenanthrene	BRL	10	ug/L							
Phenol	BRL	10	ug/L							
Pyrene	BRL	10	ug/L							
<i>Surrogate: 2,4,6-Tribromophenol</i>	124		ug/L	100.0		124	49-109			SR
<i>Surrogate: 2-Fluorobiphenyl</i>	56.5		ug/L	50.00		113	55-96			SR
<i>Surrogate: 2-Fluorophenol</i>	73.1		ug/L	100.0		73	27-74			
<i>Surrogate: Nitrobenzene-d5</i>	57.5		ug/L	50.00		115	53-99			SR
<i>Surrogate: Phenol-d5</i>	45.6		ug/L	100.0		46	11-52			
<i>Surrogate: Terphenyl-d14</i>	51.6		ug/L	50.00		103	42-133			

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Project No: Duke Diet & Fitness
Rush

Prism Work Order: 5070023
Time Submitted: 7/2/2015 7:10:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0063 - 3510C MS

LCS (P5G0063-BS1)	Prepared: 07/06/15 Analyzed: 07/07/15									
1,2,4-Trichlorobenzene	47.0	10	ug/L	50.00	94	45-103				
1,2-Dichlorobenzene	43.5	10	ug/L	50.00	87	43-100				
1,3-Dichlorobenzene	42.6	10	ug/L	50.00	85	42-98				
1,4-Dichlorobenzene	42.6	10	ug/L	50.00	85	42-100				
1-Methylnaphthalene	49.1	10	ug/L	50.00	98	45-135				
2,4,5-Trichlorophenol	52.7	10	ug/L	50.00	105	66-120				
2,4,6-Trichlorophenol	56.4	10	ug/L	50.00	113	62-121				
2,4-Dichlorophenol	52.5	10	ug/L	50.00	105	58-113				
2,4-Dimethylphenol	51.8	10	ug/L	50.00	104	42-120				
2,4-Dinitrophenol	56.5	10	ug/L	50.00	113	27-129				
2,4-Dinitrotoluene	59.8	10	ug/L	50.00	120	62-136				
2,6-Dinitrotoluene	60.5	10	ug/L	50.00	121	64-129				
2-Chloronaphthalene	60.6	10	ug/L	50.00	121	38-141				
2-Chlorophenol	47.2	10	ug/L	50.00	94	49-107				
2-Methylnaphthalene	48.6	10	ug/L	50.00	97	55-112				
2-Methylphenol	43.1	10	ug/L	50.00	86	40-106				
2-Nitroaniline	53.4	10	ug/L	50.00	107	65-122				
2-Nitrophenol	52.9	10	ug/L	50.00	106	57-115				
3,3'-Dichlorobenzidine	46.6	10	ug/L	50.00	93	58-139				
3/4-Methylphenol	43.2	10	ug/L	50.00	86	34-101				
3-Nitroaniline	50.5	10	ug/L	50.00	101	52-155				
4,6-Dinitro-2-methylphenol	57.2	10	ug/L	50.00	114	49-138				
4-Bromophenyl phenyl ether	52.9	10	ug/L	50.00	106	63-135				
4-Chloro-3-methylphenol	53.6	10	ug/L	50.00	107	33-149				
4-Chloroaniline	45.9	10	ug/L	50.00	92	44-163				
4-Chlorophenyl phenyl ether	52.6	10	ug/L	50.00	105	63-129				
4-Nitroaniline	53.5	10	ug/L	50.00	107	63-147				
4-Nitrophenol	24.8	10	ug/L	50.00	50	10-77				
Acenaphthene	53.6	10	ug/L	50.00	107	64-118				
Acenaphthylene	54.3	10	ug/L	50.00	109	65-119				
Aniline	32.5	10	ug/L	50.00	65	12-197				
Anthracene	55.3	10	ug/L	50.00	111	69-134				
Azobenzene	56.3	10	ug/L	50.00	113	56-129				
Benzo(a)anthracene	50.5	10	ug/L	50.00	101	71-125				
Benzo(a)pyrene	51.8	10	ug/L	50.00	104	67-135				
Benzo(b)fluoranthene	53.4	10	ug/L	50.00	107	56-145				
Benzo(g,h,i)perylene	52.3	10	ug/L	50.00	105	44-149				
Benzo(k)fluoranthene	49.6	10	ug/L	50.00	99	65-138				
Benzoic Acid	22.7	100	ug/L	50.00	45	10-125				J
Benzyl alcohol	39.0	10	ug/L	50.00	78	35-111				
bis(2-Chloroethoxy)methane	49.8	10	ug/L	50.00	100	49-126				
Bis(2-Chloroethyl)ether	48.5	10	ug/L	50.00	97	47-124				
Bis(2-chloroisopropyl)ether	50.2	10	ug/L	50.00	100	42-126				
Bis(2-Ethylhexyl)phthalate	54.5	10	ug/L	50.00	109	59-139				
Butyl benzyl phthalate	54.2	10	ug/L	50.00	108	67-133				
Chrysene	51.6	10	ug/L	50.00	103	64-124				

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness
 Project No: Duke Diet & Fitness
 Rush

Prism Work Order: 5070023
 Time Submitted: 7/2/2015 7:10:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0063 - 3510C MS
LCS (P5G0063-BS1)

Prepared: 07/06/15 Analyzed: 07/07/15

Dibenzo(a,h)anthracene	50.6	10	ug/L	50.00	101	49-144				
Dibenzofuran	55.2	10	ug/L	50.00	110	68-113				
Diethyl phthalate	61.0	10	ug/L	50.00	122	70-124				
Dimethyl phthalate	61.0	10	ug/L	50.00	122	71-117				
Di-n-butyl phthalate	60.0	10	ug/L	50.00	120	69-128				
Di-n-octyl phthalate	54.6	10	ug/L	50.00	109	52-150				
Fluoranthene	56.6	10	ug/L	50.00	113	66-135				
Fluorene	56.7	10	ug/L	50.00	113	67-124				
Hexachlorobenzene	56.5	10	ug/L	50.00	113	62-124				
Hexachlorobutadiene	41.9	10	ug/L	50.00	84	42-105				
Hexachlorocyclopentadiene	38.7	10	ug/L	50.00	77	32-117				
Hexachloroethane	39.8	10	ug/L	50.00	80	40-99				
Indeno(1,2,3-cd)pyrene	49.5	10	ug/L	50.00	99	40-150				
Isophorone	51.9	10	ug/L	50.00	104	54-125				
Naphthalene	50.3	10	ug/L	50.00	101	54-111				
Nitrobenzene	53.8	10	ug/L	50.00	108	51-117				
N-Nitroso-di-n-propylamine	51.2	10	ug/L	50.00	102	55-115				
N-Nitrosodiphenylamine	55.7	10	ug/L	50.00	111	70-152				
Pentachlorophenol	54.3	10	ug/L	50.00	109	23-139				
Phenanthrene	57.4	10	ug/L	50.00	115	68-128				
Phenol	22.8	10	ug/L	50.00	46	12-58				
Pyrene	51.2	10	ug/L	50.00	102	62-139				
<i>Surrogate: 2,4,6-Tribromophenol</i>	121		ug/L	100.0	121	49-109				SR
<i>Surrogate: 2-Fluorobiphenyl</i>	51.6		ug/L	50.00	103	55-96				SR
<i>Surrogate: 2-Fluorophenol</i>	64.7		ug/L	100.0	65	27-74				
<i>Surrogate: Nitrobenzene-d5</i>	51.1		ug/L	50.00	102	53-99				SR
<i>Surrogate: Phenol-d5</i>	40.2		ug/L	100.0	40	11-52				
<i>Surrogate: Terphenyl-d14</i>	49.6		ug/L	50.00	99	42-133				

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Project No: Duke Diet & Fitness
Rush

Prism Work Order: 5070023
Time Submitted: 7/2/2015 7:10:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0063 - 3510C MS

LCS Dup (P5G0063-BSD1)	Prepared: 07/06/15 Analyzed: 07/07/15								
1,2,4-Trichlorobenzene	47.1	10	ug/L	50.00	94	45-103	0.3	20	
1,2-Dichlorobenzene	43.5	10	ug/L	50.00	87	43-100	0.02	20	
1,3-Dichlorobenzene	42.0	10	ug/L	50.00	84	42-98	1	20	
1,4-Dichlorobenzene	42.6	10	ug/L	50.00	85	42-100	0.1	20	
1-Methylnaphthalene	50.4	10	ug/L	50.00	101	45-135	3	20	
2,4,5-Trichlorophenol	55.6	10	ug/L	50.00	111	66-120	5	20	
2,4,6-Trichlorophenol	58.1	10	ug/L	50.00	116	62-121	3	20	
2,4-Dichlorophenol	53.1	10	ug/L	50.00	106	58-113	1	20	
2,4-Dimethylphenol	52.0	10	ug/L	50.00	104	42-120	0.3	20	
2,4-Dinitrophenol	65.0	10	ug/L	50.00	130	27-129	14	20	L2
2,4-Dinitrotoluene	65.1	10	ug/L	50.00	130	62-136	8	20	
2,6-Dinitrotoluene	64.2	10	ug/L	50.00	128	64-129	6	20	
2-Chloronaphthalene	61.5	10	ug/L	50.00	123	38-141	1	20	
2-Chlorophenol	46.0	10	ug/L	50.00	92	49-107	2	20	
2-Methylnaphthalene	49.8	10	ug/L	50.00	100	55-112	2	20	
2-Methylphenol	43.4	10	ug/L	50.00	87	40-106	0.7	20	
2-Nitroaniline	56.6	10	ug/L	50.00	113	65-122	6	20	
2-Nitrophenol	53.8	10	ug/L	50.00	108	57-115	2	20	
3,3'-Dichlorobenzidine	51.0	10	ug/L	50.00	102	58-139	9	20	
3/4-Methylphenol	44.2	10	ug/L	50.00	88	34-101	2	20	
3-Nitroaniline	54.6	10	ug/L	50.00	109	52-155	8	20	
4,6-Dinitro-2-methylphenol	65.2	10	ug/L	50.00	130	49-138	13	20	
4-Bromophenyl phenyl ether	58.8	10	ug/L	50.00	118	63-135	10	20	
4-Chloro-3-methylphenol	55.8	10	ug/L	50.00	112	33-149	4	20	
4-Chloroaniline	46.2	10	ug/L	50.00	92	44-163	0.8	20	
4-Chlorophenyl phenyl ether	54.9	10	ug/L	50.00	110	63-129	4	20	
4-Nitroaniline	58.4	10	ug/L	50.00	117	63-147	9	20	
4-Nitrophenol	27.1	10	ug/L	50.00	54	10-77	9	20	
Acenaphthene	54.2	10	ug/L	50.00	108	64-118	1	20	
Acenaphthylene	55.4	10	ug/L	50.00	111	65-119	2	20	
Aniline	23.1	10	ug/L	50.00	46	12-197	34	20	D
Anthracene	60.9	10	ug/L	50.00	122	69-134	10	20	
Azobenzene	60.0	10	ug/L	50.00	120	56-129	6	20	
Benzo(a)anthracene	55.2	10	ug/L	50.00	110	71-125	9	20	
Benzo(a)pyrene	56.9	10	ug/L	50.00	114	67-135	9	20	
Benzo(b)fluoranthene	58.3	10	ug/L	50.00	117	56-145	9	20	
Benzo(g,h,i)perylene	57.1	10	ug/L	50.00	114	44-149	9	20	
Benzo(k)fluoranthene	55.4	10	ug/L	50.00	111	65-138	11	20	
Benzoic Acid	22.6	100	ug/L	50.00	45	10-125	0.6	20	J
Benzyl alcohol	39.1	10	ug/L	50.00	78	35-111	0.2	20	
bis(2-Chloroethoxy)methane	50.3	10	ug/L	50.00	101	49-126	1	20	
Bis(2-Chloroethyl)ether	57.7	10	ug/L	50.00	115	47-124	17	20	
Bis(2-chloroisopropyl)ether	49.9	10	ug/L	50.00	100	42-126	0.7	20	
Bis(2-Ethylhexyl)phthalate	59.9	10	ug/L	50.00	120	59-139	9	20	
Butyl benzyl phthalate	60.5	10	ug/L	50.00	121	67-133	11	20	
Chrysene	56.4	10	ug/L	50.00	113	64-124	9	20	

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Froehling & Robertson, Inc. (Raleigh)
Attn: Benjamin Whitley
310 Hubert Street
Raleigh, NC 27603

Project: Duke Diet & Fitness
Project No: Duke Diet & Fitness
Rush

Prism Work Order: 5070023
Time Submitted: 7/2/2015 7:10:00AM

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P5G0063 - 3510C MS										
LCS Dup (P5G0063-BSD1)										
Prepared: 07/06/15 Analyzed: 07/07/15										
Dibenzo(a,h)anthracene	56.5	10	ug/L	50.00	113	49-144	11	20		
Dibenzofuran	56.9	10	ug/L	50.00	114	68-113	3	20		L2
Diethyl phthalate	65.7	10	ug/L	50.00	131	70-124	7	20		L2
Dimethyl phthalate	63.9	10	ug/L	50.00	128	71-117	5	20		LH
Di-n-butyl phthalate	65.7	10	ug/L	50.00	131	69-128	9	20		L2
Di-n-octyl phthalate	60.0	10	ug/L	50.00	120	52-150	9	20		
Fluoranthene	62.8	10	ug/L	50.00	126	66-135	10	20		
Fluorene	59.2	10	ug/L	50.00	118	67-124	4	20		
Hexachlorobenzene	63.2	10	ug/L	50.00	126	62-124	11	20		L2
Hexachlorobutadiene	42.6	10	ug/L	50.00	85	42-105	2	20		
Hexachlorocyclopentadiene	40.1	10	ug/L	50.00	80	32-117	3	20		
Hexachloroethane	40.1	10	ug/L	50.00	80	40-99	0.8	20		
Indeno(1,2,3-cd)pyrene	54.3	10	ug/L	50.00	109	40-150	9	20		
Isophorone	53.4	10	ug/L	50.00	107	54-125	3	20		
Naphthalene	50.2	10	ug/L	50.00	100	54-111	0.2	20		
Nitrobenzene	53.5	10	ug/L	50.00	107	51-117	0.5	20		
N-Nitroso-di-n-propylamine	52.0	10	ug/L	50.00	104	55-115	2	20		
N-Nitrosodiphenylamine	61.2	10	ug/L	50.00	122	70-152	9	20		
Pentachlorophenol	61.5	10	ug/L	50.00	123	23-139	13	20		
Phenanthrene	62.9	10	ug/L	50.00	126	68-128	9	20		
Phenol	22.1	10	ug/L	50.00	44	12-58	3	20		
Pyrene	56.2	10	ug/L	50.00	112	62-139	9	20		
Surrogate: 2,4,6-Tribromophenol	136		ug/L	100.0	136	49-109				SR
Surrogate: 2-Fluorobiphenyl	55.0		ug/L	50.00	110	55-96				SR
Surrogate: 2-Fluorophenol	64.7		ug/L	100.0	65	27-74				
Surrogate: Nitrobenzene-d5	52.8		ug/L	50.00	106	53-99				SR
Surrogate: Phenol-d5	42.5		ug/L	100.0	43	11-52				
Surrogate: Terphenyl-d14	57.0		ug/L	50.00	114	42-133				

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Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness
 Project No: Duke Diet & Fitness
 Rush

Prism Work Order: 5070023
 Time Submitted: 7/2/2015 7:10:00AM

Volatile Petroleum Hydrocarbons by GC/PID/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0093 - MADEP VPH (W)
Blank (P5G0093-BLK1)

Prepared & Analyzed: 07/07/15

C5-C8 Aliphatics	BRL	50	ug/L							
C9-C12 Aliphatics	BRL	50	ug/L							
C9-C10 Aromatics	BRL	50	ug/L							
Surrogate: 2,5-Dibromotoluene (PID)	85.0		ug/L	100.0		85	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	87.4		ug/L	100.0		87	70-130			

LCS (P5G0093-BS1)

Prepared & Analyzed: 07/07/15

C5-C8 Aliphatics	318	50	ug/L	300.0		106	70-130			
C9-C10 Aromatics	101	50	ug/L	100.0		101	70-130			
C9-C12 Aliphatic	308	50	ug/L	300.0		103	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	96.3		ug/L	100.0		96	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	98.1		ug/L	100.0		98	70-130			

LCS Dup (P5G0093-BSD1)

Prepared & Analyzed: 07/07/15

C5-C8 Aliphatics	313	50	ug/L	300.0		104	70-130	2	50	
C9-C10 Aromatics	99.1	50	ug/L	100.0		99	70-130	2	50	
C9-C12 Aliphatic	308	50	ug/L	300.0		103	70-130	0.08	50	
Surrogate: 2,5-Dibromotoluene (PID)	93.1		ug/L	100.0		93	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	95.0		ug/L	100.0		95	70-130			

Froehling & Robertson, Inc. (Raleigh)
 Attn: Benjamin Whitley
 310 Hubert Street
 Raleigh, NC 27603

Project: Duke Diet & Fitness
 Project No: Duke Diet & Fitness
 Rush

Prism Work Order: 5070023
 Time Submitted: 7/2/2015 7:10:00AM

Extractable Petroleum Hydrocarbons by GC/FID - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P5G0047 - MADEP EPH (W)

Blank (P5G0047-BLK1)	Prepared: 07/06/15 Analyzed: 07/07/15								
C9-C18 Aliphatics	BRL	100	ug/L						
C19-C36 Aliphatics	BRL	100	ug/L						
C11-C22 Aromatics	BRL	100	ug/L						
Surrogate: 1-Chlorooctadecane	17.8		ug/L	20.00		89	40-140		
Surrogate: o-Terphenyl	15.9		ug/L	20.00		79	40-140		
Surrogate: 2-Fluorobiphenyl	34.2		ug/L	40.00		86	40-140		
Surrogate: 2-Bromonaphthalene	36.1		ug/L	40.00		90	40-140		
LCS (P5G0047-BS1)	Prepared: 07/06/15 Analyzed: 07/07/15								
C9-C18 Aliphatics	468	100	ug/L	600.0		78	40-140		
C19-C36 Aliphatics	1040	100	ug/L	800.0		130	40-140		
C11-C22 Aromatics	1270	100	ug/L	1700		75	40-140		
Surrogate: 1-Chlorooctadecane	19.0		ug/L	20.00		95	40-140		
Surrogate: o-Terphenyl	14.1		ug/L	20.00		71	40-140		
Surrogate: 2-Fluorobiphenyl	31.9		ug/L	40.00		80	40-140		
Surrogate: 2-Bromonaphthalene	33.1		ug/L	40.00		83	40-140		
LCS Dup (P5G0047-BSD1)	Prepared: 07/06/15 Analyzed: 07/07/15								
C9-C18 Aliphatics	518	100	ug/L	600.0		86	40-140	10	50
C19-C36 Aliphatics	1120	100	ug/L	800.0		140	40-140	7	50
C11-C22 Aromatics	1480	100	ug/L	1700		87	40-140	15	50
Surrogate: 1-Chlorooctadecane	17.1		ug/L	20.00		86	40-140		
Surrogate: o-Terphenyl	15.5		ug/L	20.00		77	40-140		
Surrogate: 2-Fluorobiphenyl	31.2		ug/L	40.00		78	40-140		
Surrogate: 2-Bromonaphthalene	32.8		ug/L	40.00		82	40-140		

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Sample Extraction Data

Prep Method: MADEP EPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5070023-02	P5G0047	680 mL	2 mL	07/06/15 8:45

Prep Method: 3510C MS

Lab Number	Batch	Initial	Final	Date/Time
5070023-02	P5G0063	1000 mL	1 mL	07/06/15 11:40

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
5070023-01	P5G0039	10 mL	10 mL	07/02/15 12:35
5070023-02	P5G0039	10 mL	10 mL	07/02/15 12:35

Prep Method: MADEP VPH (W)

Lab Number	Batch	Initial	Final	Date/Time
5070023-02	P5G0093	44 mL	44 mL	07/07/15 13:36



Hydrocarbon Analysis Results

Client: F&R	Samples taken	Monday, June 29, 2015
Address: 310 HUBERT STREET	Samples extracted	Monday, June 29, 2015
RALEIGH NC	Samples analysed	Monday, June 29, 2015

Contact: BENJAMIN WHITLEY **Operator:** BAW

Project: DDFC

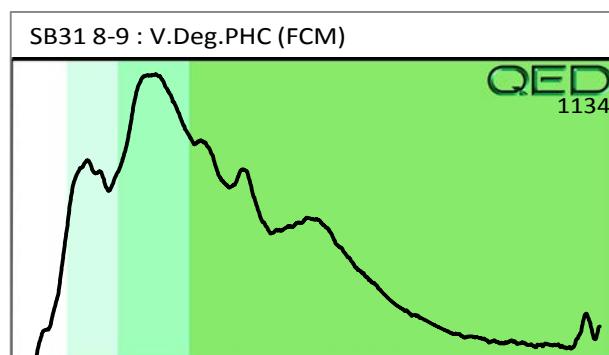
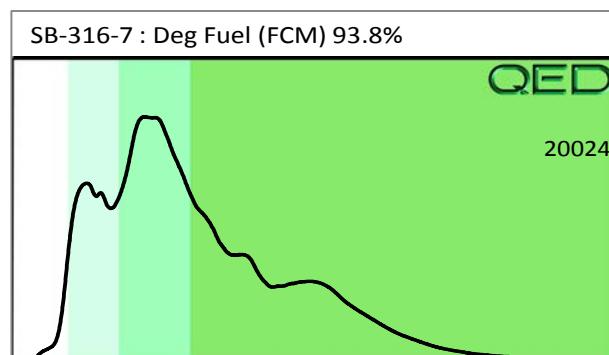
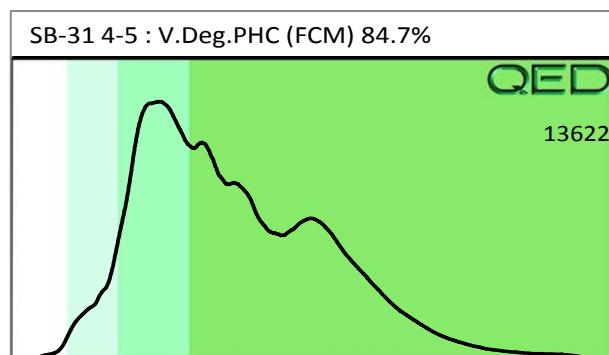
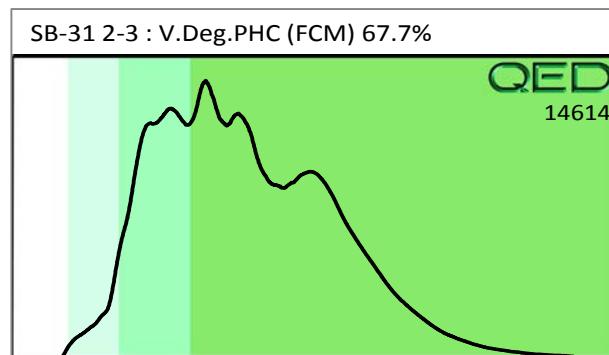
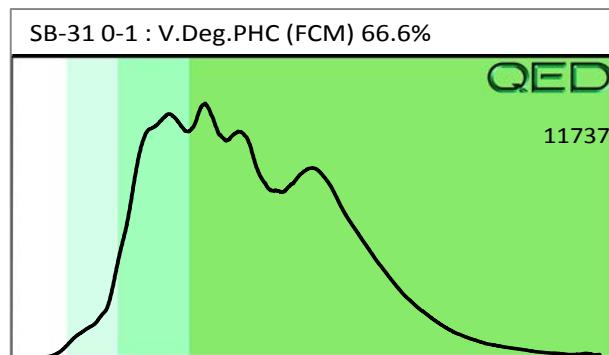
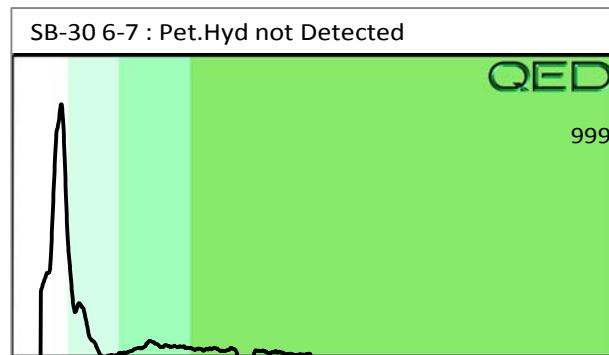
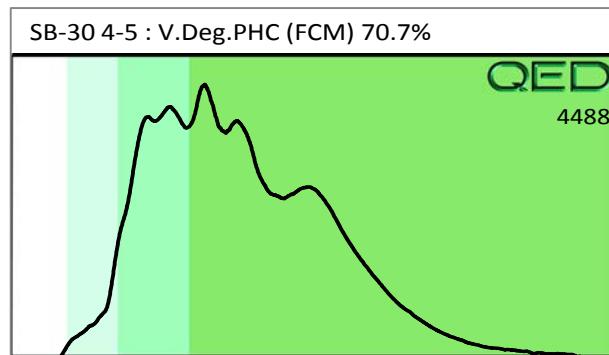
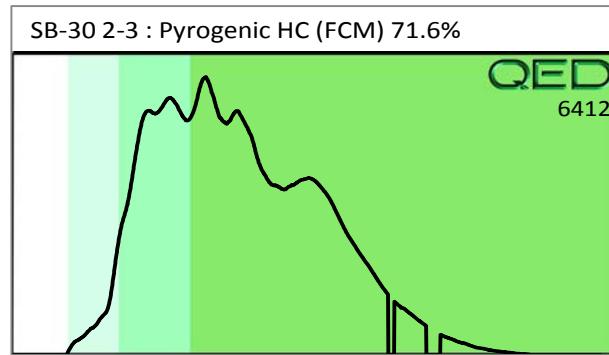
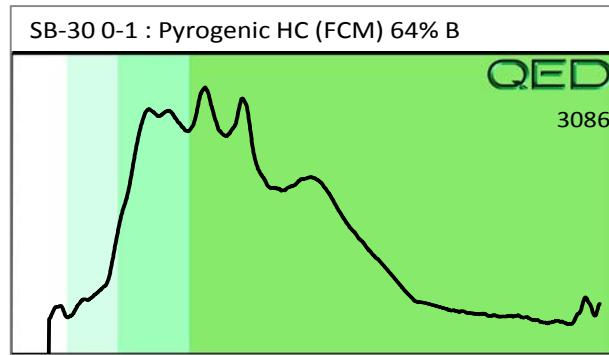
Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content.

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QED Hydrocarbon Fingerprints

Project: DDFC

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Hydrocarbon Analysis Results

Client: F&R	Samples taken	Monday, June 29, 2015
Address: 310 HUBERT STREET	Samples extracted	Monday, June 29, 2015
RALEIGH NC	Samples analysed	Monday, June 29, 2015

Contact: BENJAMIN WHITLEY **Operator** BAW

Project: DDFC

Matrix	Sample ID	Dilution used	Fingerprints Only							Ratios			HC Fingerprint Match
			BTEX (C6 - C9)	GRO (C5 - C10)	DRO (C10 - C35)	TPH (C5 - C35)	Total Aromatics (C10-C35)	16 EPA PAHs	BaP				
										% light	% mid	% heavy	
S	SB-32 0-2	21.1	<1.1	<0.53	20.4	20.4	20	2.6	0.41	0	80.1	19.9	V.Deg.PHC (FCM) 76.4%
S	SB-32 3-4	22.4	<0.56	<0.56	0.88	0.88	0.88	0.1	<0.011	0	66.5	33.5	V.Deg.PHC (FCM)
S	SB-32 5-6	12.7	<0.63	<0.32	0.25	0.25	0.25	0.03	<0.006	0	90	10	V.Deg.PHC (FCM)
S	SB-33 0-2	353.1	<17.7	<8.8	128.5	128.5	26	1.3	0.064	0	85.5	14.5	Deg Fuel (FCM) 66.2%
S	SB-33 2-3	26.3	<1.3	<0.66	8.6	8.6	7.7	1	0.18	0	73.6	26.4	V.Deg.PHC (FCM) 71.4%
S	SB-33 4-5	27.5	<1.4	<0.69	5.2	5.2	4.7	0.22	0.014	0	88.4	11.6	V.Deg.PHC (FCM) 91.7%
S	SB-34 0-2	21.1	<0.53	<0.53	3.1	3.1	1.4	0.06	<0.011	0	91.2	8.8	Deg Fuel (PFM) (FCM) 78.3%
S	SB-34 2-3	23.0	<1.1	<0.57	3.9	3.9	1.9	0.07	<0.011	0	92.5	7.5	Deg Fuel (FCM) 87.7%
S	SB-34 4-5	20.6	<1	<0.52	12.9	12.9	6.9	0.27	0.003	0	92.9	7.1	Deg Fuel (FCM) 95.9%
S	SB-34 6-7	21.9	<1.1	<0.55	0.22	0.22	<0.22	<0.02	<0.011	0	92.1	7.9	V.Deg.PHC (FCM)
Initial Calibrator QC check			OK			Final FCM QC Check			OK			98.2%	

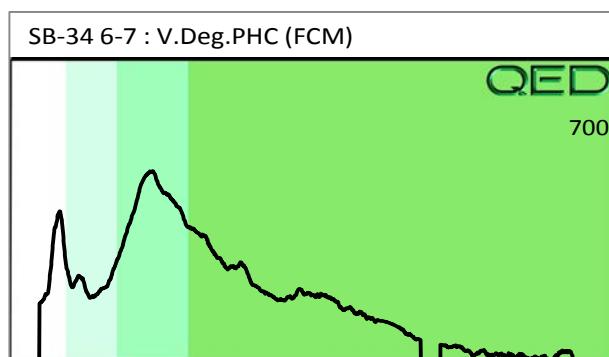
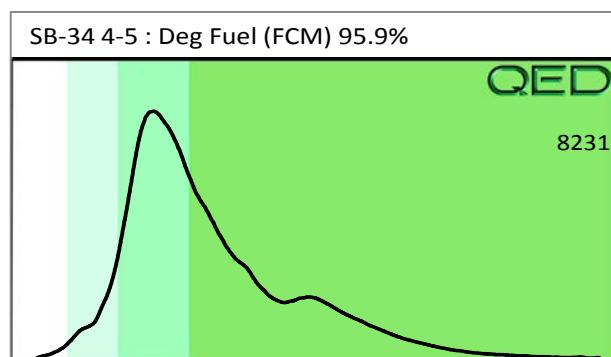
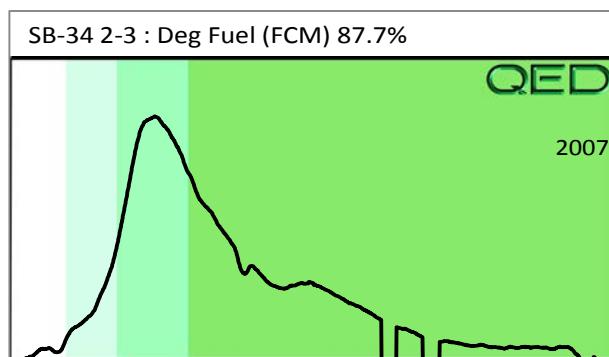
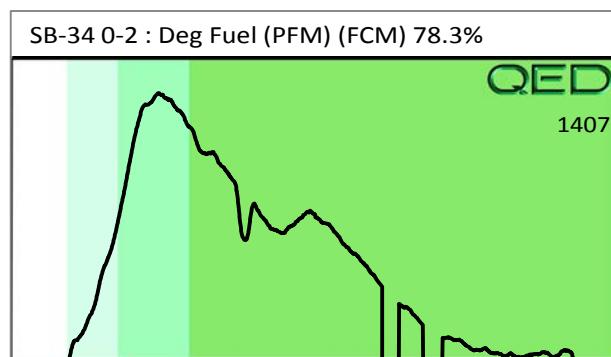
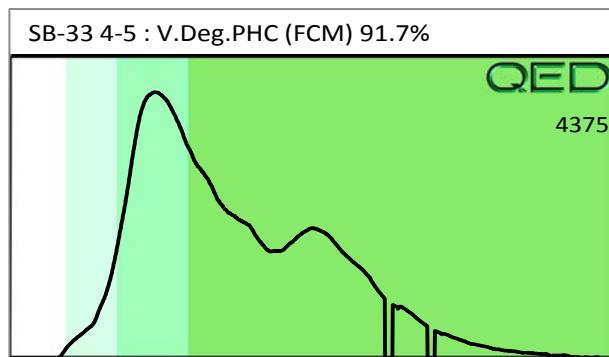
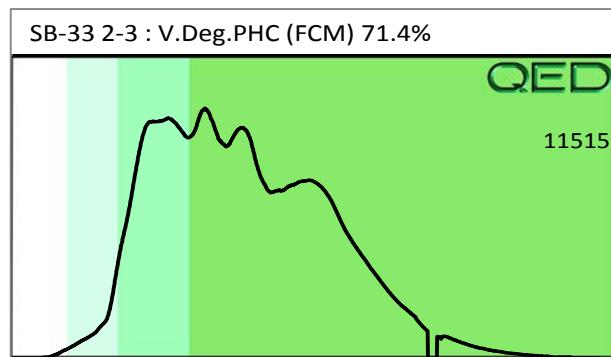
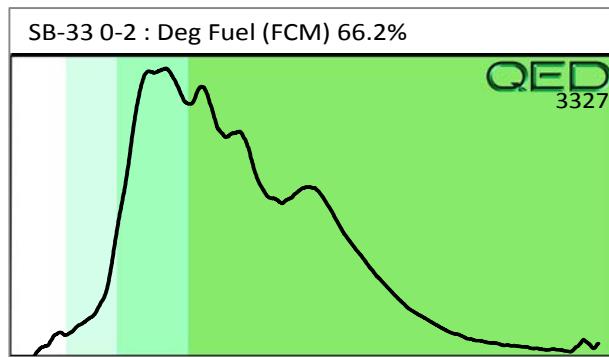
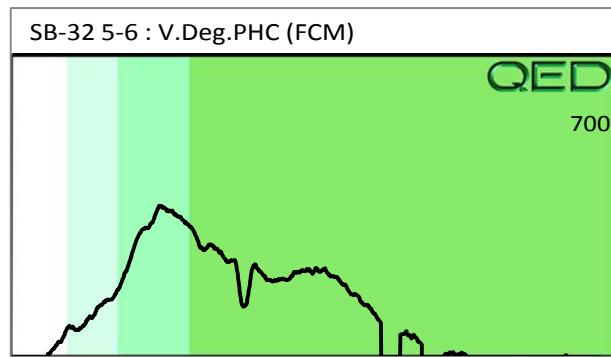
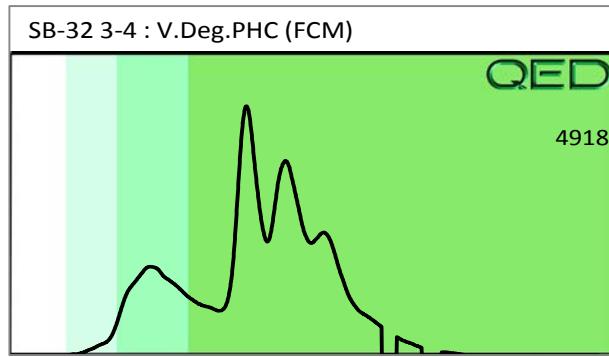
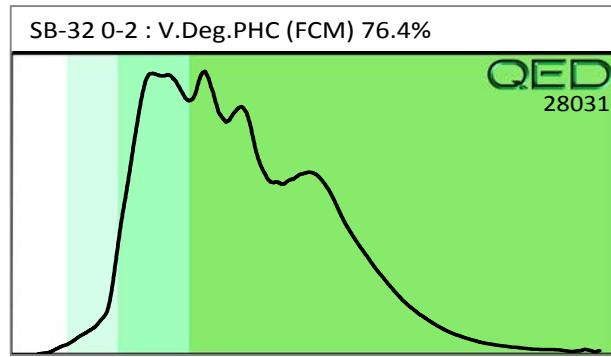
Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content.

Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode : % = confidence for sample fingerprint match to library (SBS) or (LBS) = Site Specific or Library Background Subtraction applied to result : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate present

QED Hydrocarbon Fingerprints

Project: DDFC

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Hydrocarbon Analysis Results

Client: F&R **Samples taken:** Monday, June 29, 2015
Address: 310 HUBERT STREET **Samples extracted:** Monday, June 29, 2015
RALEIGH NC **Samples analysed:** Monday, June 29, 2015

Contact: BENJAMIN WHITLEY **Operator:** BAW

Project: DDFC

Fingerprints Only														HC Fingerprint Match
Matrix	Sample ID	Dilution used	BTEX	GRO	DRO	TPH	Total Aromatics	16 EPA PAHs	BaP	Ratios				HC Fingerprint Match
			(C6 - C9)	(C5 - C10)	(C10 - C35)	(C5 - C35)	(C10-C35)			% light	% mid	% heavy		
s	SB-34 8-9	19.5	<0.98	<0.49	0.6	0.6	0.6	0.06	<0.01	0	91.3	8.7	V.Deg.PHC (FCM)	
s	SB-36 0-2	21.2	<1.1	<0.53	7.8	7.8	7.8	1	0.18	0	77.6	22.4	V.Deg.PHC (FCM) 76.3%	
s	SB-36 2-4	21.5	<1.1	<0.54	10.2	10.2	2.1	0.11	0.007	0	74.4	25.6	Deg Fuel (FCM) 66.2%	
s	SB-37 0-2	20.9	<1	<0.52	12.5	12.5	12.2	1.6	0.25	0	78.1	21.9	V.Deg.PHC (FCM) 78.9%	
s	SB-37 2-4	21.5	<1.1	<0.54	4.3	4.3	3.9	0.53	0.1	0	74.4	25.6	V.Deg.PHC (FCM) 75.4%	
s	SB-37 4-5	21.2	<0.53	<0.53	<0.21	<0.53	<0.11	<0.02	<0.011	0	62.2	37.8	V.Deg.PHC (FCM)	
s	SB-38 0-2	21.3	<1.1	<0.53	28.5	28.5	25.7	3.4	0.64	0	77.5	22.5	Pyrogenic HC (FCM) 68.9%	
s	SB-38 2-4	20.4	<1	<0.51	11.6	11.6	2.2	0.11	0.007	0	71.9	28.1	Deg Fuel (FCM) 58.7%	
s	SB-38 4-5	10.6	<0.53	<0.27	0.14	0.14	0.14	0.02	0.005	0	68.2	31.8	Pyrogenic HC (FCM)	
	Initial Calibrator QC check				OK	Final FCM QC Check				OK	96.3%			

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content

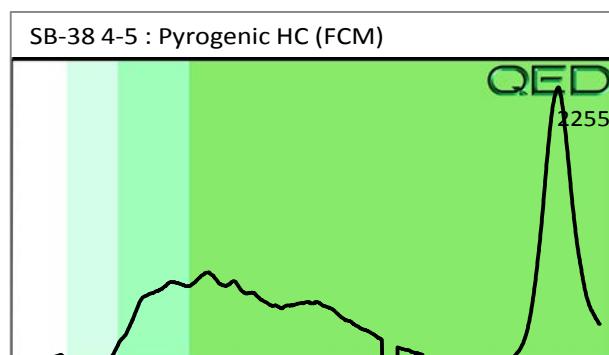
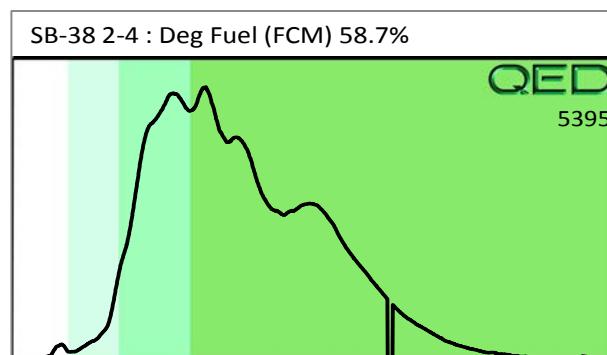
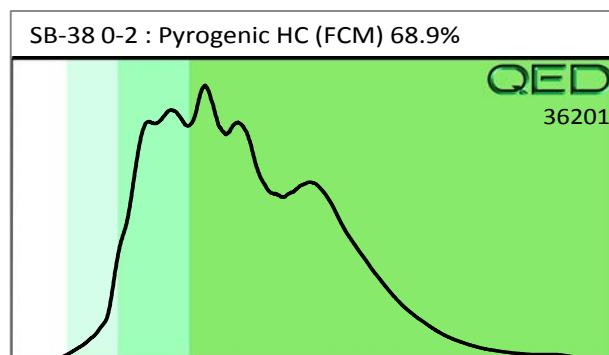
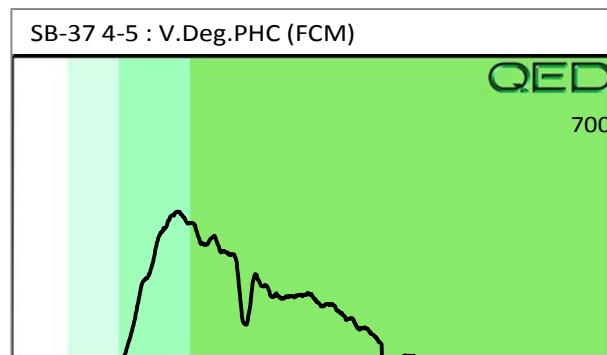
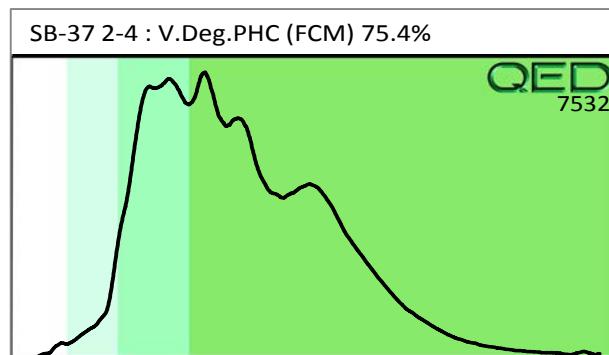
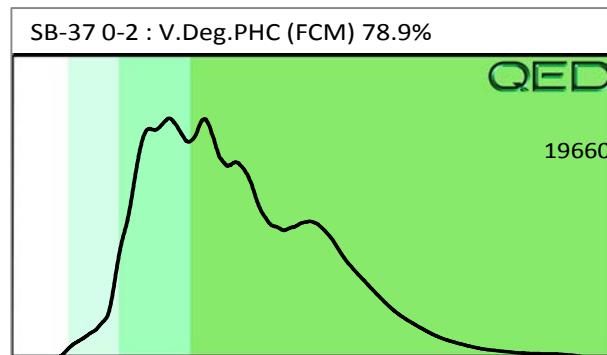
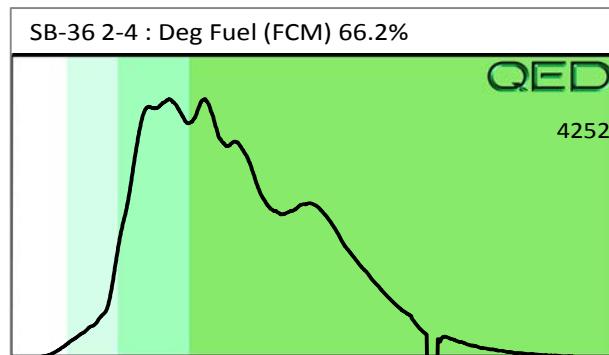
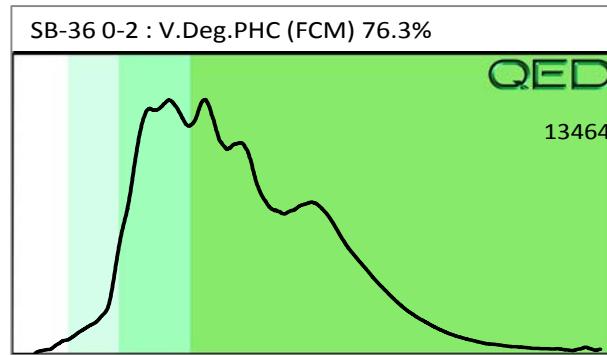
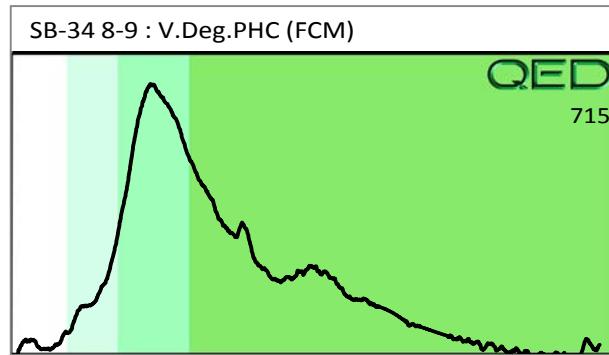
Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode : % = confidence for sample fingerprint match to library

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QED Hydrocarbon Fingerprints

Project: DDFC

#####





Hydrocarbon Analysis Results

Client: F&R **Samples taken:** Monday, June 29, 2015
Address: 310 HUBERT STREET **Samples extracted:** Monday, June 29, 2015
RALEIGH NC **Samples analysed:** Monday, June 29, 2015

Contact: BENJAMIN WHITLEY **Operator:** BAW

Project: DDFC

Fingerprints Only															
Matrix	Sample ID	Dilution used	BTEX	GRO	DRO	TPH	Total Aromatics	16 EPA PAHs	BaP	Ratios			HC Fingerprint Match		
			(C6 - C9)	(C5 - C10)	(C10 - C35)	(C5 - C35)	(C10-C35)			% light	% mid	% heavy			
s	SB-39 0-2	22.1	<1.1	<0.55	24.4	24.4	21.3	2.9	0.63	0	73	27	Pyrogenic HC (FCM) 62.7%		
s	SB-39 2-4	21.3	<1.1	<0.53	7.8	7.8	7.5	0.88	0.12	0	74.3	25.7	V.Deg.PHC (FCM) 73.7%		
s	SB-39 4-6	21.3	<1.1	<0.53	1.3	1.3	1.3	0.17	0.016	0	80.9	19.1	Pyrogenic HC (FCM)		
s	SB-40 0-2	21.8	<1.1	<0.54	27.7	27.7	27.6	3.6	0.66	0	80.4	19.6	V.Deg.PHC (FCM) 72.7%		
s	SB-40 2-4	20.6	<1	<0.52	0.31	0.31	0.31	0.04	0.003	0	67.1	32.9	V.Deg.PHC (FCM)		
s	SB-40 4-5	11.6	<0.58	<0.29	0.12	0.12	<0.09	<0.01	<0.006	0	63.4	36.6	V.Deg.PHC (FCM)		
s	SB-41 0-2	21.1	<1.1	<0.53	35.3	35.3	34.8	4.5	0.76	0	81.9	18.1	V.Deg.PHC (FCM) 73.8%		
s	SB-41 2-4	20.9	<1	<0.52	3	3	2.7	0.37	0.083	0	73.3	26.7	V.Deg.PHC (FCM) 74.8%		
s	SB-41 4-5	21.2	<0.53	<0.53	0.21	0.21	<0.14	<0.02	<0.011	0	73.1	26.9	V.Deg.PHC (FCM)		
	Initial Calibrator QC check				OK					Final FCM QC Check				OK	100.5%

Results generated by a QED HC-1 analyser. Concentration values in mg/kg for soil samples and mg/L for water samples. Soil values are not corrected for moisture or stone content

Fingerprints provide a tentative hydrocarbon identification. The abbreviations are:- FCM = Results calculated using Fundamental Calibration Mode : % = confidence for sample fingerprint match to library (SBS) or (LBS) = Site Specific or Library Background Subtraction applied to result : (PFM) = Poor Fingerprint Match : (T) = Turbid : (P) = Particulate present

QED Hydrocarbon Fingerprints

Project: DDFC

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